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July 11, 2008

Mr. Kenneth Bardo - LU-9J U.S. EPA Region V Corrective Action Section Enforcement Compliance Branch 77 West Jackson Boulevard Chicago, IL 60604-3507

Re:

PCB Mobility and Migration Investigation

1<sup>st</sup> Quarter 2008 Data Report

Solutia Inc., W. G. Krummrich Plant, Sauget, IL

Dear Mr. Bardo:

Enclosed please find the PCB Mobility and Migration Investigation 1<sup>st</sup> Quarter 2008 Data Report for Solutia Inc.'s W. G. Krummrich Plant, Sauget, IL.

If you have any questions or comments regarding this report, please contact me at (314) 674-3312 or gmrina@solutia.com

Sincerely,

Gerald M. Rinaldi

Manager, Remediation Services

Enclosure

cc: Distribution List

1 <sup>S T</sup> QUARTER 2008 DATA REPORT

# PCB MOBILITY AND MIGRATION INVESTIGATION

SOLUTIA INC. W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

Prepared for Solutia Inc. 575 Maryville Centre Dr St. Louis, Missouri 63141

July 2008

URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 Project # 21561996.00001

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July 2008

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## 1.0 INTRODUCTION

Solutia Inc. (Solutia) is conducting groundwater monitoring activities as outlined in the PCB Mobility and Migration Investigation Work Plan (Solutia, 2005). This report presents the results of the 1<sup>st</sup> Quarter 2008 (1Q08) sampling event as part of the Phase III Site Investigation. This is the eighth sampling event for the well network. The 2Q08 sampling event will be the last event conducted under the PCB Mobility and Migration Investigation Work Plan, starting with 3Q08 Solutia will start implementing the PCB Groundwater Quality Assessment Program. The site location map is presented in **Figure 1**.

The monitoring well network consists of eight monitoring wells as follows (Figure 2):

- Two wells are located in the source area, PMAMW04S and PSMW02, and are screened in the Shallow Hydrogeologic Unit (SHU) and Middle Hydrogeologic Unit (MHU), respectively.
- Three well clusters are located downgradient of the source area and outside of the 25 mg/kg total PCB isoconcentration line in soil, PMAMW01S/M, PMAMW02S/M and PMAMW03S/M. These clusters include wells screened in the SHU (designated with an "S") and MHU (designated with an "M").

Eight groundwater samples were obtained from the eight monitoring wells during the 1Q08 sampling event. The sample from well PSMW02 was collected as part of the Plume Stability Monitoring Program sampling event and the results are also included in this report. Laboratory data sheets and relevant field sampling information for this well are included in the 1Q08 Plume Stability Monitoring Program Data Report.

The field sampling activities were conducted in accordance with the procedures outlined in the PCB Mobility and Migration Investigation Work Plan including the collection of appropriate quality assurance and quality control (QA/QC) samples. The following section summarizes the field investigative procedures.

### 2.0 FIELD PROCEDURES

URS Corporation (URS) conducted the 1Q08 field activities on March 13<sup>th</sup> (groundwater level measurements) and March 26<sup>th</sup> through 31<sup>st</sup>, 2008 (groundwater sampling).

**Groundwater Level Measurements-** Static groundwater levels were measured and the presence of non-aqueous phase liquids was evaluated on March 13<sup>th</sup>, 2008 using an oil/water interface probe at the well locations. Well gauging information for the 1Q08 event is presented in **Table 1**. Monitoring well PMAMW04S had a measured DNAPL thickness of 0.10 feet. Groundwater potentiometric surface maps of the SHU and MHU are presented in **Figures 3** and **4**, respectively.

**Groundwater Quality Sampling** - Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well, a submersible pump attached to polyethylene tubing was slowly lowered down the well and secured so that the pump intake was set near the middle or slightly above the middle of the screened interval. The other end of the polyethylene tubing was connected to a flow-

through cell which discharged into a 5-gallon plastic bucket. Pump flow rates were started at approximately 200 ml/min during purging. Water level measurements were initially recorded approximately every two minutes to assess whether significant drawdown was occurring. If significant drawdown occurred, the flow rates were scaled back. Drawdown was monitored to ensure that it did not exceed 25% of the distance between the pump intake and the top of the screen (approximately 0.62 ft). Once the flow rate and drawdown were stable, field measurements were collected approximately every three to five minutes. Field measurements are presented on the groundwater purging and sampling forms, in **Appendix A.** Groundwater was considered stable when the following criteria were met over a minimum of three successive flow-through cell volumes:

• pH - ± 0.2 units

• Specific Conductance - ± 3%

Dissolved Oxygen (DO)
 ± 10% or ± 2 mg/L whichever is greater

Oxidation-Reduction Potential (ORP)- ± 20 mV

Once stabilization was achieved, samples were typically collected at a flow rate no higher than that at which stabilization was achieved and consistent with the work plan in the following order:

- Volatile Organic Compounds (VOCs)
- Semivolatile Organic Compounds (SVOCs)
- Polychlorinated biphenyls (PCBs), filtered and unfiltered (field filtered using a 0.45 micron filter)

Quality Assurance/Quality Control (QA/QC) samples consisting of analytical duplicates (AD) and equipment blanks (EB) were collected at a rate of 10% and matrix spike/matrix spike duplicates (MS/MSD) were collected at a rate of 5%, complying with the work plan. In addition, trip blanks (TB) accompanied each shipment containing samples for VOC analysis. All samples were submitted to TestAmerica facility in Savannah, Georgia for analysis.

The sample identification system for groundwater samples included the following nomenclature "PMAMW02S-0308" which denotes PCB Manufacturing Area monitoring well number 2S sampled in March 2008. QA/QC samples are identified by the suffix AD, EB or MS/MSD.

Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). COC forms are included in **Appendix B**.

Samples were placed on ice inside a cooler immediately following sampling. Sample containers were packed in such a way as to help prevent breakage. Samples were shipped in coolers, each containing ice to maintain inside temperature at approximately 4°C. Sample coolers were sealed between the lid and sides of the cooler with a custody seal prior to shipment. The samples were shipped to the

TestAmerica facility in Savannah, Georgia by means of FedEx<sup>®</sup> Priority Overnight delivery service or DHL Express delivery service.

### 3.0 LABORATORY PROCEDURES

Samples were analyzed by TestAmerica for the 40 CFR 264 Appendix IX VOCs, SVOCs and PCBs using the following methodologies:

- VOCs, via Method 8260B
- SVOCs, via Method 8270C
- PCBs, via Method 680

Dichlorobenzenes were quantitated using Method 8260B because of potential volatilization losses associated with Method 8270C. Laboratory results were provided in electronic and hard copy formats.

### 4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness as described in the PCB Mobility and Migration Investigation Work Plan. Data qualifiers were added, as appropriate, and are included on the data tables and the laboratory result pages. The Quality Assurance report is included as **Appendix C**. Laboratory result pages (i.e. Form 1's) along with data validation review sheets are included in **Appendix D**.

A total of 11 samples (seven investigative groundwater samples, one field duplicate, one MS/MSD pair, one equipment blank) were prepared and analyzed by TestAmerica for combinations of VOCs, SVOCs and PCBs. In addition, three trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. The results for the various analyses were submitted as sample delivery group (SDG) KPM015.

Evaluation of the analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA 1999) and the PCB Mobility and Migration Investigation Work Plan, (URS 2005). Based on the above mentioned criteria, results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, LCS, surrogate and field duplicate data were achieved for these SDGs to meet the project objectives. Completeness, which is defined to be the percentage of analytical results which are judged to be valid, including estimated (J/UJ) data, was 100 percent.

During the review of the preliminary analytical data from 1Q08 it was noticed that sample containers from monitoring wells PMAMW03S and PMAMW03M were apparently mislabeled during sampling. This observation was confirmed when the 1Q08 data were cross referenced with the previous seven quarters of data. In this report the sample results associated with sample PMAMW03S-0308 and the sample results associated with sample PMAMW03M-0308 have been reconciled to address this. Additional information can be found in **Appendix D**.

### 5.0 OBSERVATIONS

This section presents a brief summary of the groundwater analytical results from the 1Q08 sampling event. The following constituents were detected in groundwater samples for the 1Q08 event:

<u>VOCs</u>	<u>SVOCs</u>	<u>PCBs</u>
1,2-dichlorobenzene	pentachlorobenzene	dichlorobiphenyl
1,3-dichlorobenzene	p-chloroaniline	heptachlorobiphenyl
1,4-dichlorobenzene	phenol	hexachlorobiphenyl
benzene	1,2,4-trichlorobenzene	monochlorobiphenyl
chlorobenzene	3,4-dichloronitrobenzene	octachlorobiphenyl
ethylbenzene	1,2,4,5-tetrachlorobenzene	pentachlorobiphenyl
toluene	3-methylphenol/4-methylphenol (m&p-cresol)	tetrachlorobiphenyl
total xylenes	<u>Metals</u>	trichlorobiphenyl
chloromethane	barium	

The results are presented on Table 2.

Benzene and chlorobenzene were both detected in seven out of eight monitoring wells. Consequently, benzene, chlorobenzene and total PCBs were the constituents chosen to evaluate groundwater migration from the Former PCB Manufacturing Area in the SHU and MHU.

**Shallow Hydrogeologic Unit** – DNAPL was present at the time of sampling in PMAMW04S at a thickness of approximately 0.10 feet but we were unable to collect a sample from this well. A groundwater sample was taken in lieu of the DNAPL sample for the 1Q08 sampling event. Total PCBs were detected at a concentration of 438.5 ug/L (filtered 164 ug/L) in the groundwater sample collected from source area monitoring well PMAMW04S. PMAMW04S has contained measurable DNAPL in seven of the eight sampling events; DNAPL was absent in 1Q07. Chlorobenzene was detected at a concentration of 530 ug/L, and benzene was detected in the groundwater at a 40 ug/L.

PCBs were detected in two of three downgradient PCB Mobility and Migration monitoring wells (PMAMW02S and PMAMW03S) at a concentration of 0.28 ug/L (filtered ND) and 0.25 ug/L (filtered 0.31 ug/L) respectively, while no PCBs were detected at in the third downgradient monitoring well sample (PMAMW01S). These data indicate that PCBs in the SHU attenuated over the 300 to 400 ft distance between PMAMW04S and the three downgradient monitoring wells.

Benzene and chlorobenzene were detected in two of the three downgradient SHU monitoring wells. Benzene was detected at concentrations of 6.9 ug/L and 81 ug/L respectively in downgradient monitoring wells PMAMW01S, and 02S (benzene was ND in PMAMW03S), while chlorobenzene was detected at concentrations of 440 ug/L and 180 ug/L respectively (chlorobenzene was ND in PMAMW03S).

**Middle Hydrogeologic Unit** – Total PCBs were detected at a concentration of 0.27 ug/L (filtered 0.1 ug/L) in Plume Stability Monitoring Well PSMW02, which is located adjacent to PMAMW04S in the Former PCB Manufacturing Area. Total PCBs were detected in the two of three downgradient monitoring

wells at concentrations of 1.7 ug/L (filtered 1.7 ug/L) (PMAMW02M), and 0.39 ug/L (filtered ND) (PMAMW03M). Total and dissolved PCBs were not detected in the duplicate sample for PMAMW03M. PMAMW02M was nondetect for both the unfiltered and filtered PCB samples during the 1Q08 sampling event. These data indicate that PCB migration was attenuated as recharge from the SHU reached the MHU, and migrated to the three downgradient monitoring wells.

Benzene and chlorobenzene were detected at concentrations of 2,100 ug/L and 490 ug/L, respectively, in source area monitoring well PSMW02. Benzene was detected at concentrations of 650 ug/L, 5,500 ug/L and 5,400/5,000 ug/L (duplicate), in downgradient monitoring wells PMAMW01M, 02M and 03M, respectively, while chlorobenzene was detected at concentrations of 1,100 ug/L, 7,900 ug/L, and 1,400/1,300 ug/L (duplicate).

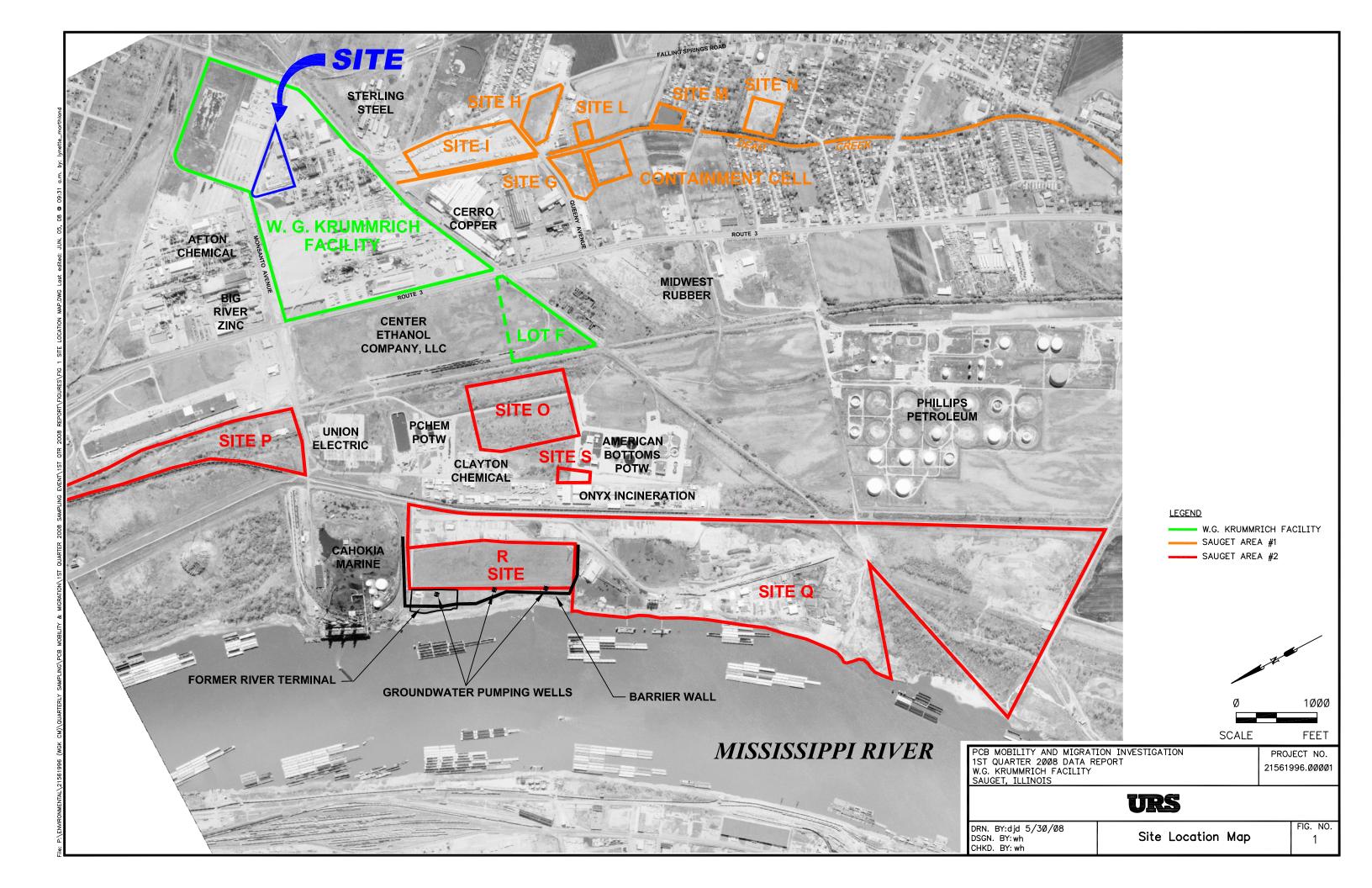
**Figures 5** and **6** display the results for PCBs (unfiltered and filtered), total chlorobenzenes, and benzene for the 2Q07, 3Q07, 4Q07, and 1Q08 sampling events for the SHU and MHU, respectively. Data from the 1Q08 sampling event are generally consistent with the results from previous sampling events (Solutia, 2006B; Solutia, 2007A; Solutia, 2007B; Solutia, 2007C; Solutia, 2007D; Solutia, 2008A; Solutia, 2008B; Solutia, 2008C) except for the anomalous 4Q07 detection of 48 ug/L of PCBs in PMAMW1M. The PCB concentrations from this quarter from well PMAMW1M are more in-line with the former six quarters ranging from ND to 0.29 ug/L.

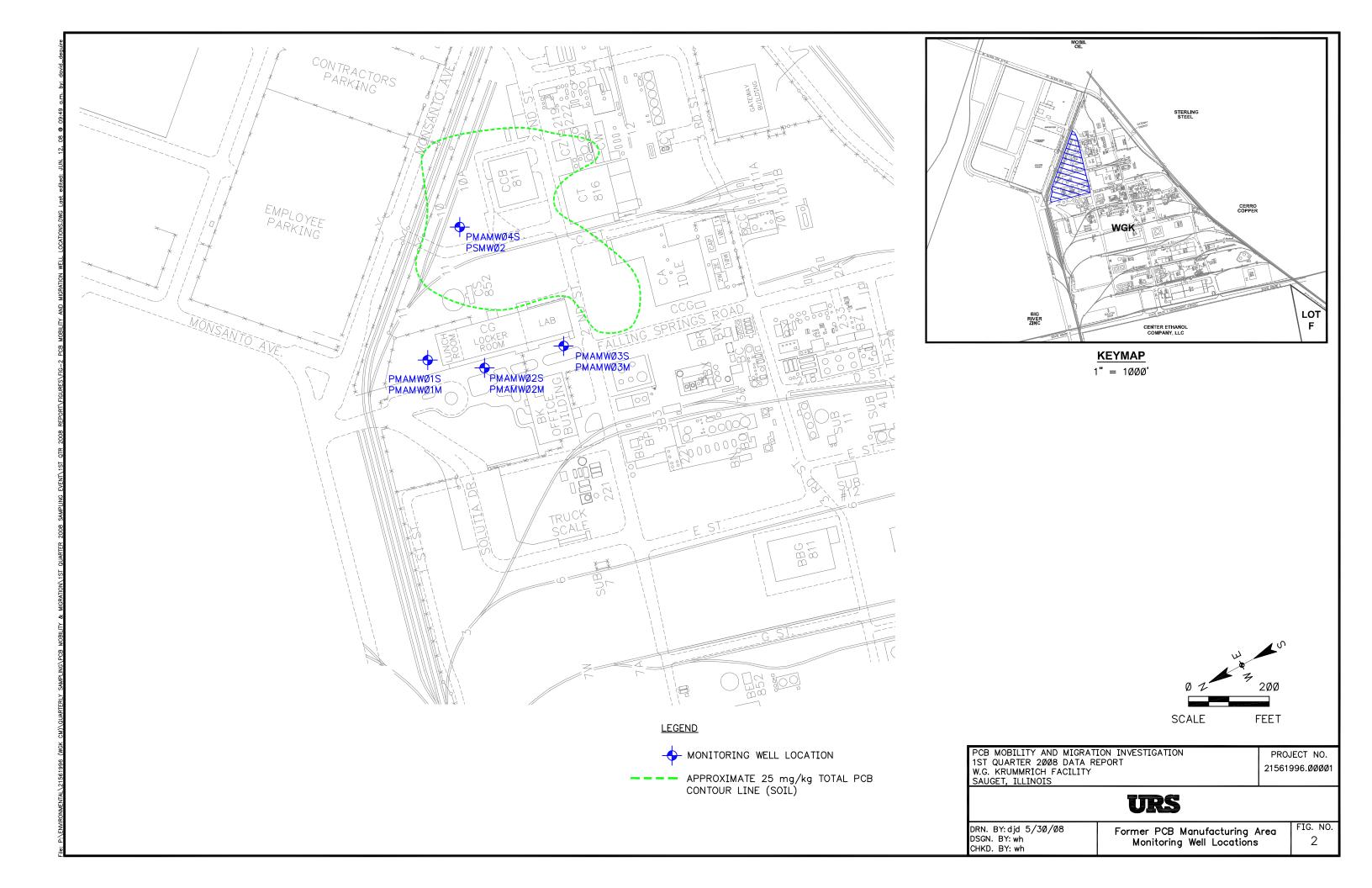
The next sampling event (2Q08) will be the last event conducted under the PCB Mobility and Migration Investigation Work Plan. Starting with 3Q08, Solutia will implement the PCB Groundwater Quality Assessment Program.

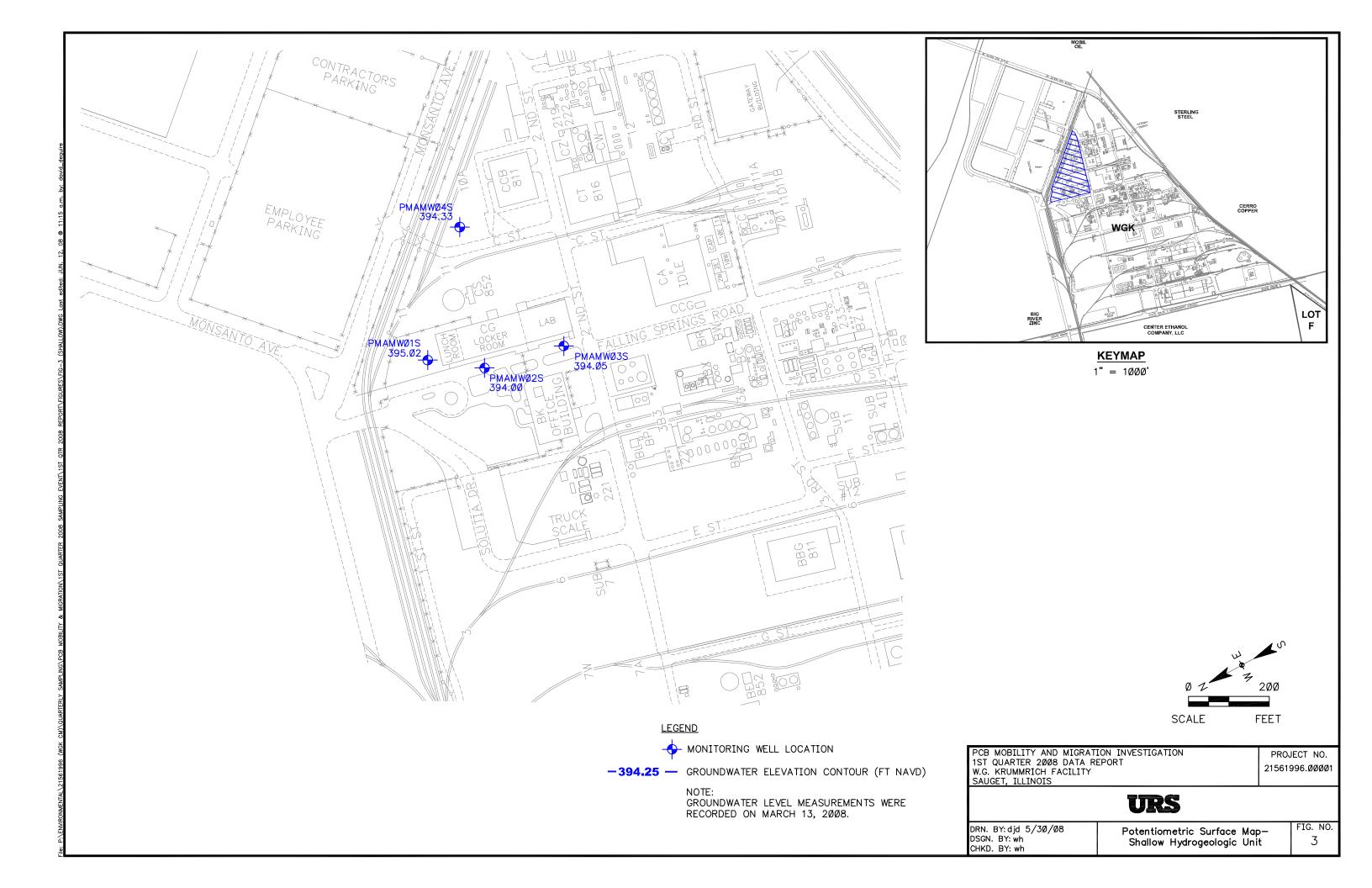
## 6.0 REFERENCES

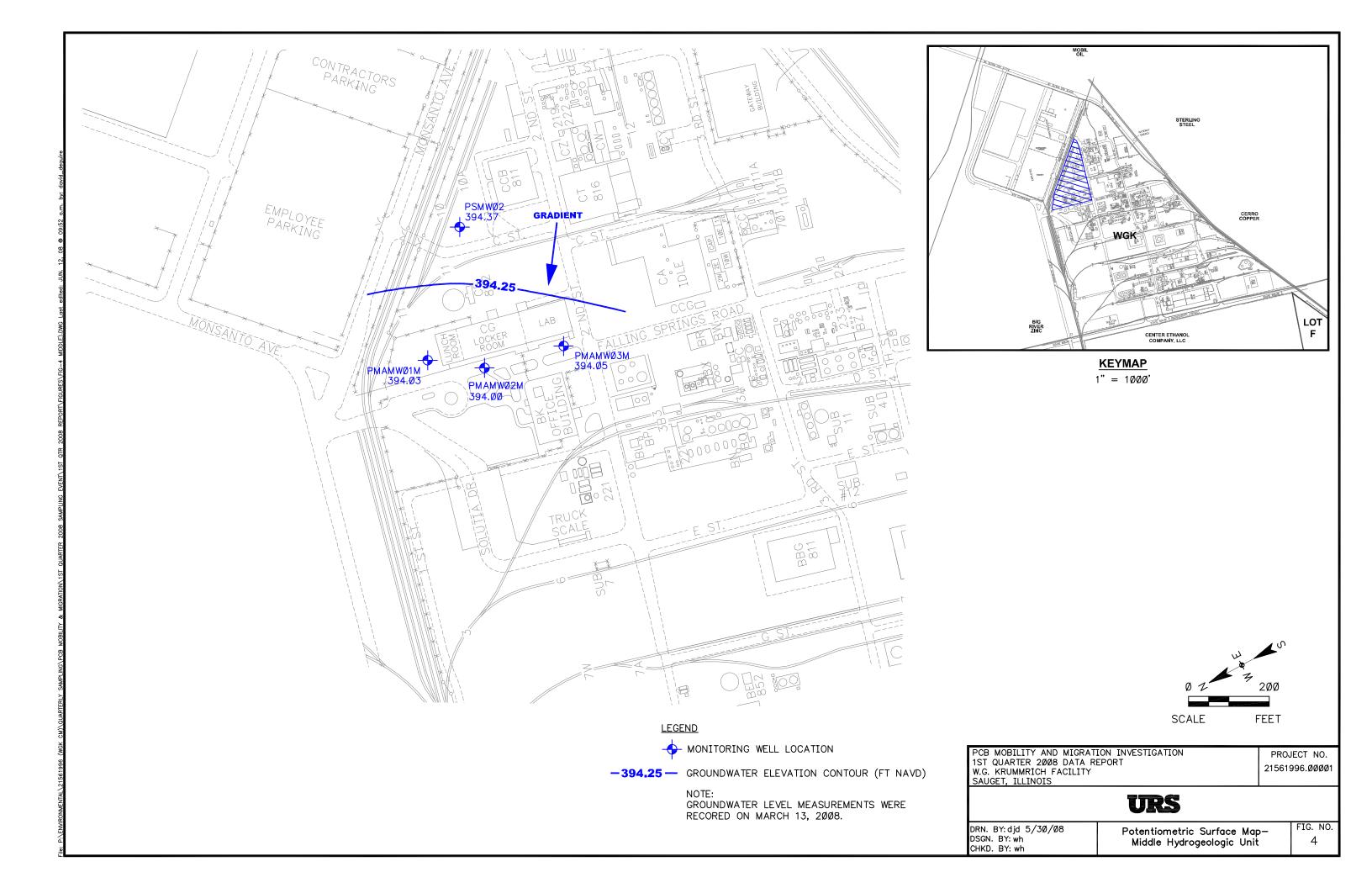
- Solutia Inc, 2005. PCB Mobility and Migration Investigation Plan, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, October 2005.
- Solutia Inc, 2006A. "PCB Well Info." E-mail to USEPA. 26 July 2006.
- Solutia Inc, 2006B. PCB Mobility and Migration Investigation 2<sup>nd</sup> Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, October 2006.
- Solutia Inc, 2007A. PCB Mobility and Migration Investigation 3<sup>rd</sup> Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, January 2007.
- Solutia Inc, 2007B. PCB Mobility and Migration Investigation 4<sup>th</sup> Quarter 2006 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, May 2007.
- Solutia Inc, 2007C. PCB Mobility and Migration Investigation 1<sup>st</sup> Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, July 2007.
- Solutia Inc, 2007D. PCB Mobility and Migration Investigation 2<sup>nd</sup> Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, November 2007.
- Solutia Inc, 2008A. PCB Mobility and Migration Investigation 3<sup>rd</sup> Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, December 2007.
- Solutia Inc, 2008B. PCB Mobility and Migration Investigation 4<sup>th</sup> Quarter 2007 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, April 2008.
- Solutia Inc, 2008C. Plume Stability Monitoring Program 1<sup>st</sup> Quarter 2008 Data Report, W.G. Krummrich Facility, Sauget, IL, Prepared by URS Corporation, July 2008.
- U.S. Environmental Protection Agency (USEPA), 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review.

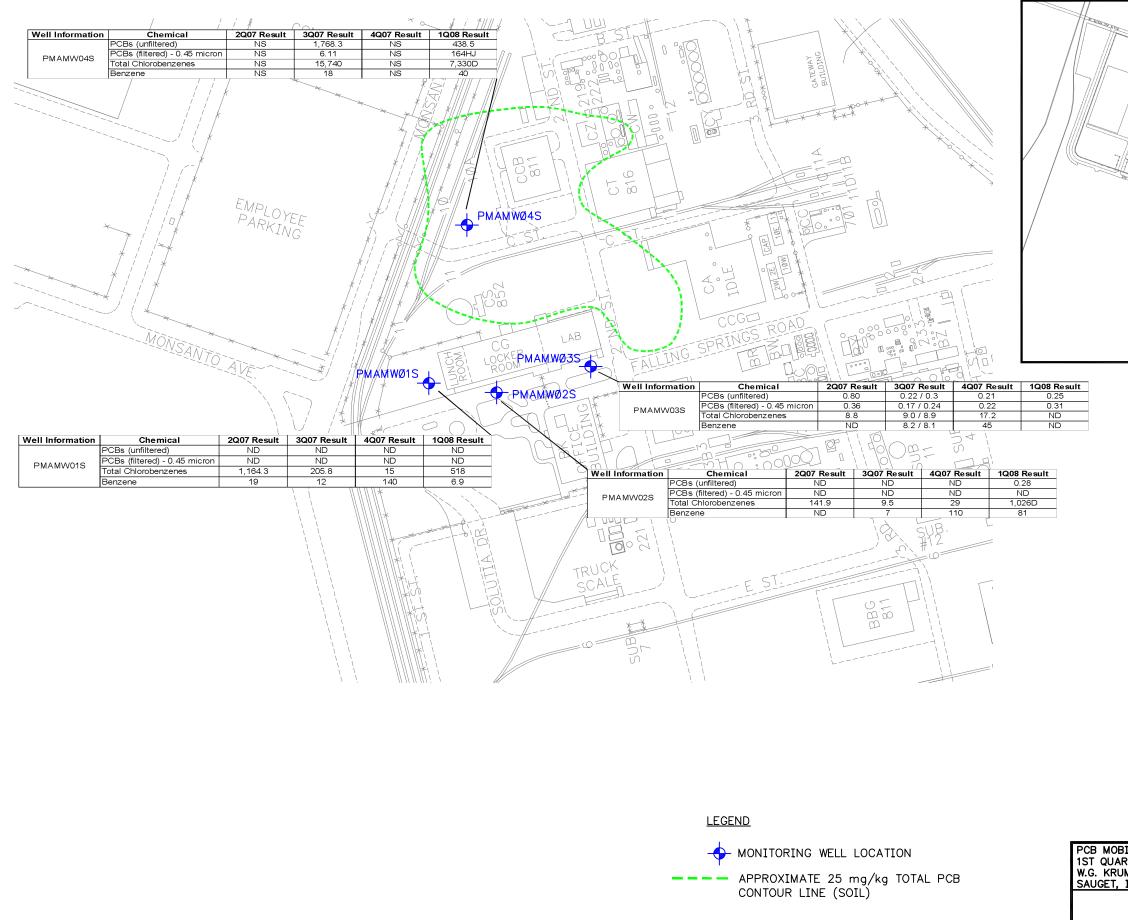
# **Figures**

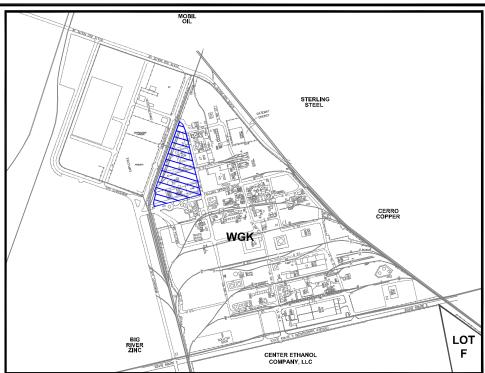










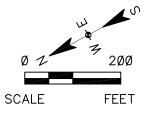


# **KEYMAP**

1" = 1000'

#### NOTES

- 1) TOTAL CHLOROBENZENES RESULTS INCLUDE THE SUM OF MONOCHLOROBENZENE, 1,2-DICHLOROBENZENE, 1,3-DICHLOROBENZENE, 1,4-DICHLOROBENZENE, AND 1,2,4-TRICHLOROBENZENE.
- 2) TOTAL PCBs RESULTS INCLUDE THE SUM OF ALL METHOD 68Ø HOMOLOGS.
- 3) RESULTS SHOWN ARE IN ug/L.
- 4) ND DENOTES NOT DETECTED
- 5) MULTIPLE SAMPLE RESULTS INDICATE A DUPLICATE SAMPLE.
- 6) NS DENOTES PMAMWØ4S CONTAINED DNAPL AND THE GROUNDWATER WAS NOT SAMPLED DURING THE EVENT (2QØ7 AND 4QØ7), BOTH DNAPL AND GROUNDWATER WERE SAMPLED DURING 3QØ7, GROUNDWATER RESULTS ARE PRESENTED ON THIS FIGURE.

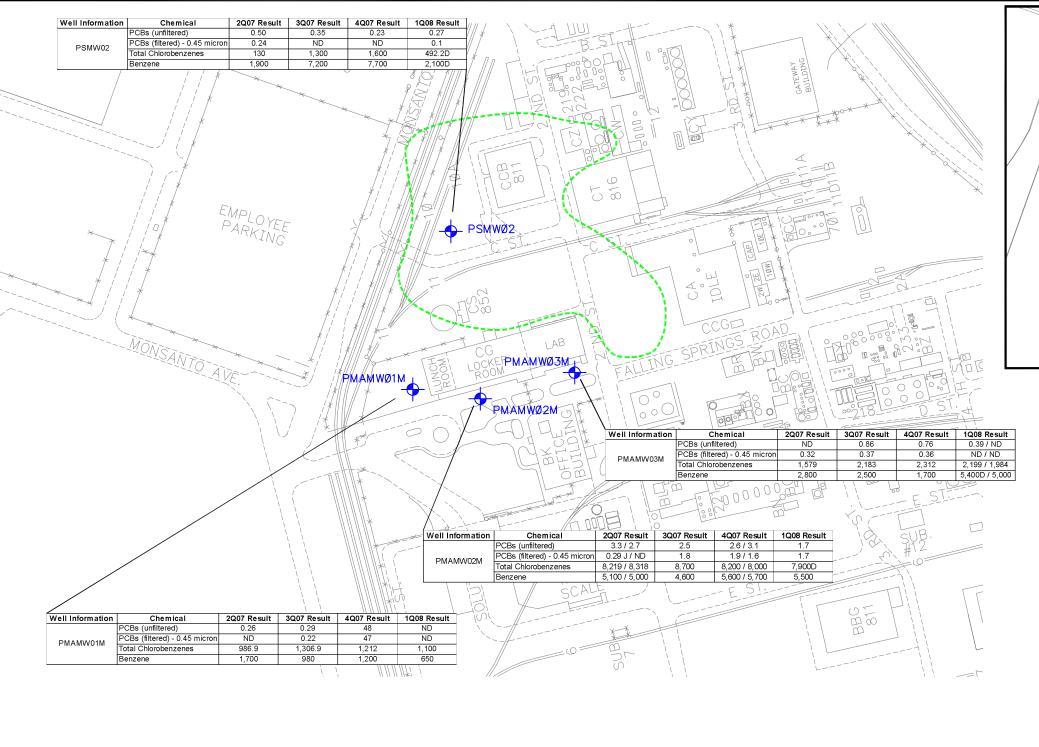


PCB MOBILITY AND MIGRATION INVESTIGATION 1ST QUARTER 2008 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

PROJECT NO. 21561996.ØØØØ1

URS

DRN. BY: djd 5/30/08 DSGN. BY: wh CHKD. BY: wh Total PCBs, Total Chlorobenzenes, and Benzene Results — SHU Wells FIG. NO. 5

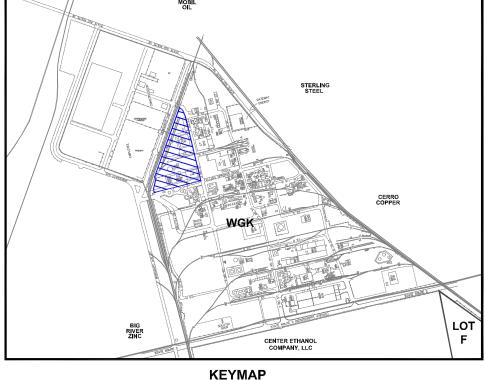


**LEGEND** 

→ MONITORING WELL LOCATION

CONTOUR LINE (SOIL)

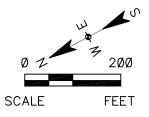
APPROXIMATE 25 mg/kg TOTAL PCB



1" = 1000'

#### NOTES:

- 1) TOTAL CHLOROBENZENES RESULTS INCLUDE THE SUM OF MONOCHLOROBENZENE, 1,2-DICHLOROBENZENE, 1,3-DICHLOROBENZENE, AND 1,2,4-TRICHLOROBENZENE.
- 2) TOTAL PCBs RESULTS INCLUDE THE SUM OF ALL METHOD  $68\emptyset$  HOMOLOGS.
- 3) RESULTS SHOWN ARE IN ug/L.
- 4) ND DENOTES NOT DETECTED.
- 5) MULTIPLE SAMPLE RESULTS INDICATE A DUPLICATE SAMPLE.



PCB MOBILITY AND MIGRATION INVESTIGATION 1ST QUARTER 2008 DATA REPORT W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

PROJECT NO. 21561996.ØØØØ1

URS

DRN. BY: djd 5/30/08 DSGN. BY: wh CHKD. BY: wh

Total PCBs, Total Chlorobenzenes, and Benzene Results—MHU Wells

FIG. NO.

# Tables

Table 1
Monitoring Well Gauging Information

			Consti	ruction Det	ails		March 13, 2008				
Well ID	Ground Elevation (ft)*	Casing Elevation (ft)*	Depth to Top of Screen (ft)**	Depth to Bottom of Screen (ft)**	Top of Screen Elevation (ft)*	Screen	Depth to Water (ft) ***	Depth to Product (ft) ***	Depth to Bottom (ft)***	Water Elevation (ft)*	
	Shallow Hydrogeologic Unit (SHU 395 - 380 ft NAVD)										
PMAMW01S	410.30	410.06	20.18	25.18	390.12	385.37	15.04	-	24.93	395.02	
PMAMW02S	412.27	411.66	22.94	27.94	389.33	385.01	17.66	-	27.26	394.00	
PMAMW03S	412.37	412.06	22.71	27.71	389.66	384.97	18.01	-	27.40	394.05	
PMAMW04S	411.09	410.43	20.99	25.99	390.10	385.74	16.10	25.25	25.35	394.33	
			Middle	Hydrogeol	ogic Unit (MHU	380 - 350 ft NA	VD)				
PMAMW01M	410.32	410.08	54.54	59.54	355.78	350.71	16.05	-	59.61	394.03	
PMAMW02M	412.26	411.93	56.87	61.87	355.39	350.71	17.93	ı	61.55	394.00	
PMAMW03M	412.36	412.10	57.07	62.07	355.29	350.56	18.05		61.80	394.05	
PSMW02	411.22	410.88	68.84	73.84	342.38	337.89	16.51	•	73.33	394.37	

#### Note:

- \* Elevation based upon North American Vertical Datum (NAVD) 88 datum.
- \*\* Feet below ground surface.
- \*\*\* Depth is measured from top of casing (TOC).

# Table 2 Groundwater Analytical Detections

0	Sample Chemical Chemical		Ole and its al	Daniel	11-24-	Lab	URS
Sample ID	Date	Group	Chemical	Result	Units	Qualifiers	Qualifiers
PMAMW01S-0308	3/26/2008	VOCs	1,2-Dichlorobenzene	14	ug/L		
PMAMW01S-0308	3/26/2008	VOCs	1,4-Dichlorobenzene	59	ug/L		
PMAMW01S-0308	3/26/2008	VOCs	Benzene	6.9	ug/L		
PMAMW01S-0308	3/26/2008	VOCs	Chlorobenzene	440	ug/L		
PMAMW01M-0308	3/26/2008	VOCs	Benzene	650	ug/L		
PMAMW01M-0308	3/26/2008	VOCs	Chlorobenzene	1.100	ua/L		
PMAMW01M-0308	3/26/2008	SVOCs	P-Chloroaniline	42	ug/L		
PMAMW02S-0308	3/27/2008	VOCs	1,2-Dichlorobenzene	530	ug/L	D	
PMAMW02S-0308	3/27/2008	VOCs	1,3-Dichlorobenzene	55	ug/L		
PMAMW02S-0308	3/27/2008	VOCs	1.4-Dichlorobenzene	230	ug/L	D	
PMAMW02S-0308	3/27/2008	VOCs	Benzene	81	ug/L		
PMAMW02S-0308	3/27/2008	VOCs	Chlorobenzene	180	ug/L		
PMAMW02S-0308	3/27/2008	SVOCs	1,2,4-Trichlorobenzene	31	ug/L		
PMAMW02S-0308	3/27/2008	SVOCs	3,4-Dichloronitrobenzene	53	ug/L		
PMAMW02S-0308	3/27/2008	PCBs	Dichlorobiphenyl	0.1	ug/L		
PMAMW02S-0308	3/27/2008	PCBs	Monochlorobiphenyl	0.18	ug/L		
PMAMW02M-0308	3/27/2008	VOCs	Benzene	5,500	ug/L	D	
PMAMW02M-0308	3/27/2008	VOCs	Chlorobenzene	7,900	ug/L	D	
PMAMW02M-0308	3/27/2008	PCBs	Monochlorobiphenyl	1.7	ug/L		
PMAMW02M-F-0308	3/27/2008	PCBs	Monochlorobiphenyl	1.7	ug/L		
PMAMW03S-0308	3/27/2008	PCBs	Monochlorobiphenyl	0.25	ug/L		
PMAMW03S-F-0308	3/27/2008	PCBs	Monochlorobiphenyl	0.31	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	1.2-Dichlorobenzene	270	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	1.3-Dichlorobenzene	49	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	1.4-Dichlorobenzene	480	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	Benzene	5,400	ug/L	D	
PMAMW03M-0308	3/27/2008	VOCs	Chlorobenzene	1,400	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	Ethylbenzene	76	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	Toluene	25	ug/L		
PMAMW03M-0308	3/27/2008	VOCs	Xylenes, Total	210	ug/L		
PMAMW03M-0308	3/27/2008	SVOCs	P-Chloroaniline	120	ug/L		
PMAMW03M-0308	3/27/2008	PCBs	Monochlorobiphenyl	0.39	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	1.2-Dichlorobenzene	180	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	1.3-Dichlorobenzene	44	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	1.4-Dichlorobenzene	460	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	Benzene	5,000	ug/L	D	
PMAMW03M-0308-AD	3/27/2008	VOCs	Chlorobenzene	1,300	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	Ethylbenzene	80	ug/L	1	
PMAMW03M-0308-AD	3/27/2008	VOCs	Toluene	23	ug/L		
PMAMW03M-0308-AD	3/27/2008	VOCs	Xylenes, Total	210	ug/L		
PMAMW03M-0308-AD	3/27/2008	SVOCs	P-Chloroaniline	120	ug/L	1	

# Table 2 Groundwater Analytical Detections

Commis ID	Sample	Chemical	Chamiasi	Decult	Huita	Lab	URS
Sample ID	Date	Group	Chemical	Result	Units	Qualifiers	Qualifiers
PMAMW04S-0308	3/31/2008	VOCs	1,2-Dichlorobenzene	330	ug/L	D	
PMAMW04S-0308	3/31/2008		1,3-Dichlorobenzene	670	ug/L	D	
PMAMW04S-0308	3/31/2008		1,4-Dichlorobenzene	2,900	ug/L	D	
PMAMW04S-0308	3/31/2008	VOCs	Benzene	40	ug/L		
PMAMW04S-0308	3/31/2008	VOCs	Chlorobenzene	530	ug/L	D	
PMAMW04S-0308	3/31/2008	VOCs	Chloromethane	1.1	ug/L		
PMAMW04S-0308	3/31/2008	VOCs	Ethylbenzene	13	ug/L		
PMAMW04S-0308	3/31/2008		1,2,4,5-Tetrachlorobenzene	28	ug/L		
PMAMW04S-0308	3/31/2008		1,2,4-Trichlorobenzene	2,900	ug/L	D	
PMAMW04S-0308	3/31/2008	SVOCs	3-Methylphenol/4-Methylphenol (m&p-Cresol)	9.8	ug/L		
PMAMW04S-0308	3/31/2008	SVOCs	P-Chloroaniline	38	ug/L		
PMAMW04S-0308	3/31/2008		Pentachlorobenzene	16	ug/L		
PMAMW04S-0308	3/31/2008		Dichlorobiphenyl	12	ug/L		
PMAMW04S-0308	3/31/2008		Heptachlorobiphenyl	89	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Hexachlorobiphenyl	110	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Monochlorobiphenyl	1.5	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Octachlorobiphenyl	12	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Pentachlorobiphenyl	73	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Tetrachlorobiphenyl	97	ug/L		
PMAMW04S-0308	3/31/2008	PCBs	Trichlorobiphenyl	44	ug/L		
PMAMW04S-F-0308	3/31/2008	PCBs	Dichlorobiphenyl	3.6	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008	PCBs	Heptachlorobiphenyl	39	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008		Hexachlorobiphenyl	42	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008	PCBs	Octachlorobiphenyl	5.4	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008	PCBs	Pentachlorobiphenyl	28	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008	PCBs	Tetrachlorobiphenyl	35	ug/L	Н	J
PMAMW04S-F-0308	3/31/2008	PCBs	Trichlorobiphenyl	11	ug/L	Н	J
PSMW02-0308	3/28/2008	VOCs	1,4-Dichlorobenzene	2.2	ug/L		
PSMW02-0308	3/28/2008	VOCs	Benzene	2,100	ug/L	D	
PSMW02-0308	3/28/2008	VOCs	Chlorobenzene	490	ug/L	D	
PSMW02-0308	3/28/2008	VOCs	Ethylbenzene	6.1	ug/L		
PSMW02-0308	3/28/2008	VOCs	Toluene	39	ug/L		
PSMW02-0308	3/28/2008	VOCs	Xylenes, Total	130	ug/L		
PSMW02-0308	3/28/2008	SVOCs	P-Chloroaniline	23	ug/L		
PSMW02-0308	3/28/2008	SVOCs	Phenol	30	ug/L		
PSMW02-0308	3/28/2008	PCBs	Dichlorobiphenyl	0.16	ug/L		
PSMW02-0308	3/28/2008	PCBs	Monochlorobiphenyl	0.11	ug/L		
PSMW02-F-0308	3/28/2008		Dichlorobiphenyl	0.1	ug/L		
PSMW02-0308	3/28/2008		Barium	0.61	mg/L		

### Notes:

mg/L = milligrams per liter

ug/L = micrograms per liter

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

H = Sample was prepped or analyzed beyond the specified holding time.

J = Estimated value

# Appendix A Groundwater Purging and Sampling Forms

ITIAL DATA ell Diameter: 2 tal Well Depth (tepth to Water (bto	otoc): 고닉.역5 ic): L닉.역0 IAPL (btoc): reen (btoc): 20.18	_in Water Column _ft If Depth to To _ft Place Pump a _ft If Depth to To _ft Place Pump a	o of Screen is > Dep t: Total Well Depth - p of Screen is < Dep t: Total Well Depth -	ude LNAPL or DNAPL):_ th to Water AND Screen 0.5 (Screen Length + D th to Water AND Water (0.5 X Water Column H umn height is < 4 ft, Place	Lenth is (4 feet, NAPL Column Heigh Column Height and S eight + DNAPL Colum	Screen Length are 〈 4ft, nn Height) =	ft btoc Vo	lume of Flow Throug nimum Purge Volumo 3 x Flow Through Ce nbient PID/FID Readi elibore PID/FID Readi	e = II Volume) <u>1500</u> ng: 🔾 . 🗸	mL mL ppm ppm
ımp Type: Purge Volume	Stainless Steel M	Depth to				Temp	Cond.	Turbidity	DO	ORP
(mL)	Time	Water (ft)	Color	Odor	pH	(°C)	(ms/cm)	(NTUs)	(mg/l)	(mv)
1,000 2000	0930	14.90	Cleur	Chem Like	6.39	17.05	1.333	46.1	127 1.13	-22.3
	09 75	14.40	<del>                                     </del>	<del>                                     </del>	6.58	17.10	1.316 1. <b>3</b> 51	35.1 21.2	<b>0</b> .65	-380
,000 ,000	0945	14.90	<del>                                     </del>	<del>                                     </del>	6.63	17.03	1.227	20.7	0.37	-35.1
	09 50	14.90	+ + -	1 1		17.03	1.20	19.9		- 33,9
000	0955	14.40	+ 4	1 1/	6.65	17.08	1.221	3.0	0.28	-31.9
					MA					
art Time: 09.50 p Time: 09.50 AMPLING DA mple Date: 3 mple Method:		nsoon	A	lapsed Time: 30 m verage Purge Rate (mL/i	min): <u>200</u>			vocs, svocs, Totrated: NA	YSI 556 and LaMotte	
OMMENTS:				<u> </u>					.2 Micron) = <i>N A</i>	

PROJECT NAME:			NUMBER: 215	61996.00001	F	TELD PERSONNEL:	M. Corbett, B. H	owland		
DATE: 3/26 MONITORING WE	ELLID: PMAMW	WEATHER:	sunny,	SAMP	LE ID:	PMAMW	701M-0308			_
INITIAL DATA						-				
Well Diameter: 2		in Water Column I	Jaiahè (da maè incl	ide LNAPL or DNAPL):_	45.10		# L.L		O-H.) 500	
Total Well Depth (t	btoc): 59.62	_fit If Depth to Top	of Screen is > Dept	th to Water AND Screen I			Mi	olume of Flow Through nimum Purge Volume	Cell ): <u>500</u>  -	mL
Depth to Water (bto	oc):_ /4.52	ft Place Pump at:	Total Well Depth -	0.5 (Screen Length + DN	APL Column Heigh	nt) = 52.04	ft btoc (	3 x Flow Through Cell	Volume) 1500	mL
	, ,	ft If Depth to Top ft Place Pump at:	of Screen is < Dep	th to Water AND Water C (0.5 X Water Column He	Column Height and	Screen Length are ( 4f		nbient PID/FID Reading ellbore PID/FID Readin		
Screen Length:				mn height is < 4 ft, Place			ft btoc	elibore FID/FID Reaulin	g. <u> </u>	ppm
PURGE DATA Pump Type:	Stainless Steel Mo	onsoon								
Purge Volume	1	Depth to				Temp	Cond.	Turbidity	DO	ORP
(mL)	Time	Water (ft)	Color	Odor	pH	(°C)	(ms/cm)	(NTUs)	(mg/l)	(mv)
0	0938	14.52	clear	chenical-like	7.03	16.31	2.449	20./	41.5	-7.7
<u> 1000</u> 2000	0943	<del>                                     </del>		<del>                                     </del>	6.97	16.61	2.423	13.3	32.6	-7.G -8.0
3000	0953		1 (		7.05	16.64	2.401	12.4	24.9	-8.6
4000	0958	<b>\</b>		1	7.03	16.35	5.369	10.01	20.2	-8.7
5000	1003		V	<b>V</b>	7.06	16.19	7.366	8.16	19.5	-8.5
6000	1008				7.10	16,42	2.362	4.59	16.7	-8.5
		_					+		-	-
										+
Start Time:	0938			apsed Time:	30 min				YSI 556 and LaMotte	2020
Stop Time:	1008		A	erage Purge Rate (mL/m	nin): 2 <i>0</i> 0	2	Date Calib	rated: 3/26 /2008		
SAMPLING DA	TA									
Sample Date: 3	3/26 /2008		Sa	ample Time:	1020		Analysis:	VOCs, SVOCs, Total	PCBs, Dissolved PCB	is
Sample Method:	Stainless Steel Mons	soon	Sa	ample Flow Rate:	1020 200 m	16/min	Date Calib	rated: NA		
COMMENTS:						7	Fama	un lunn (Filthuard O. C	AMinum) AIO	
						<u>.</u>	rerro	us Iron (Filtered 0.2	$\frac{1}{2} \frac{1}{2} \frac{1}$	

PROJECT NAME:			IUMBER: 215619			FIELD PERSONNEL:	M. Corbett, E	3. Howland		
DATE: 3/27 MONITORING WE	/2008 LL ID: PMAMW(		60's overa	ist It.Wî SAMP	へと PLE <b>ID</b> :	PMAMWO	02S-0308			
INITIAL DATA										
Well Diameter: 2		in Water Column H	leight (do not include	LNAPL or DNAPL):		11.49	ft btoc	Volume of Flow Through	Cell ): 500	mL
Total Well Depth (b	toc): <u>27.35</u>	_ft If Depth to Top (	of Screen is > Depth to	o Water AND Screen	Lenth is (4 feet,	05 411	ft btoc	Minimum Purge Volume	= '	
Depth to Water (bto Depth to LNAPL/DN	c):_ <u>15 , 8 ら</u> APL (btoc):_ <del>-</del>	ft If Depth to Top	Total Well Depth – 0.5 of Screen is < Depth 1	to Water AND Water (	Column Height and	Screen Length are ( 4ft.		(3 x Flow Through Cell Ambient PID/FID Reading	; Q .O	m <b>L</b> ppm
Depth to Top of Screen Length:	reen (btoc): 22.94	ft Place Pump at:	Total Well Depth - (0.	5 X Water Column He	ight + DNAPL Colu	mn Height) = ell Depth - 2 ft =	ft btoc	Wellbore PID/FID Readin	g: <u>೧</u> .ဝ	ppm
Screen Lengur.	<u> </u>	_it ii Scieen Lengu	n and or water column	i neight is 5,4 it, Flat	e rump at. 10tal 11	еп Берит-2 и =	11 5100			
PURGE DATA										
Pump Type:	Stainless Steel Mo				,					
Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DQ (mg/i)	ORP (mv)
1000	11.15	15.86	Clargy Brown	Chem Like	7.14	15.76	1.479	167.2	1,44	-4,8 -4,8
2000	1120	15.86			7.09	16.01	1-446	145.5	0.86	1-4.8
3000	1125	15.86			7.10	16.29	1,386	14488487	0.89	- 50
4000	(130	15.86	V		3.15	16.30	1.363	M176.383	0.55	-5.8
5000	1135	15.86	Clear		7.12	16.18	1.340	14+06.3 88	0.50	-57 -5.7
6000	1140	15.86			7.12	16.22	1.35/	14 <del>18 2</del> 31	0.48	-5.1
7000	1115	15.86	<u> </u>		1.10	16.05	1.325		0.48	-5.7
						<del>\</del>				+
						+				1
			<b>\</b>						$\vdash$	
					_				<u> </u>	<b>\</b>
		+			-				1	
					1					
Start Times 15	_		Elen	sed Time: 35	m'0		Motor	Quality Meter ID:	YSI 556 and LaMotte	20000
Start Time: \( \( \)			Elap:	age Purge Rate (mL/n				alibrated: 3/ 27 /2008	131330 and Lawotte	, 2020
Stop Time: 11 2/5			Aver	age Purge Hate (ML/I	nin); <u>&amp;</u>		_ Date C	alibrated: 3/ 0/ / /2008		
SAMPLING DA	TA									
Sample Date: 3	/ <b>27</b> /2008		Sam	ple Time: 11 U	,		Analys	sis: VOCs, SVOCs, Total	PCRs Dissolved PCI	Re
· —	Stainless Steel Mon:		Salii	ple Flow Rate: 20	5			Calibrated: NA	11 003, 013301464 1 01	
Sample Method:	Staffiess Steel More	50011	Sani	pieriuw nate. <u>20</u>	00 Min					
COMMENTS:	orethis we	2[[					E.	errous Iron (Filtered 0.2	Micron) - AIA	
TO DE	ne una coe	· · ·					re	silvus ilvii (riileieu v.z	WHOTOTIJ = JOIN	

PROJECT NAME		PROJECT	NUMBER: 21561	996.00001	ا	FIELD PERSONNEL:	M. Corbett, B. H	owland		
DATE: <u>3/ スコ</u> MONITORING WI	ELL ID: PMAMWO		1: 55 over	SAMPI	LE ID:	PMAMW	02M-0308			
AUTIAL DATA										
NITIAL DATA						45.44				
Well Diameter: <u>2</u> Fotal Well Depth(	! btoc): 61.59	in Water Column ft If Depth to To	Height (do not include p of Screen is > Depth t	LNAPL or DNAPL): to Water AND Screen L	enth is (4 feet.	•		olume of Flow Throug inimum Purge Volume		mL
Depth to Water (bt	oc): 16.15	ft Place Pump a	t: Total Well Depth - 0.5	(Screen Length + DN	APL Column Heig	ht) = 59.37	ft btoc	3 x Flow Through Ce	II Volume) 1500	mL
		ft If Depth to To t Place Pump a	p of Screen is <  Depth t: Total Well Depth – (0.	to Water AND Water C 5 X Water Column Hei	column Height and	Screen Length are ( 4ft	, Al - ft btoc W	mbient PID/FID Readir ellbore PID/FID Readi	ng: 0.0 ng: 0.0	ppm ppm
Screen Length:	5	ft If Screen Leng	gth and/or water colum	n helght is < 4 ft, Place	Pump at: Total W	/ell Depth - 2 ft =	ft btoc	Chibore i ibri ib ricadi	g. <u> </u>	
PURGE DATA Pump Type:	Stainless Steel Mo	nsoon_								
Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	Нq	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
1600	0845	16.15	Slightly Clardy	Chem like	7 26	15.18	2.195	36.2	1.32	1.8
2000	0850	16.15	' '		7.23	15.14	2.184	20.0	1.25	-3.4
3000 4000	0855	16.15	<del>                                     </del>		7.25	15.49	2.184	9.0	1.20	-4.1
5000	0105	16.15	<del>                                     </del>		7.24	15.95	2.190	8.1	1.20	-5.3
									_	
Start Time: 08			Elap	sed Time: 25 m	in		_	ality Meter ID:	YSI 556 and LaMot	te 2020
Stop Time: Q	<u>م</u> و		Aver	age Purge Rate (mL/m	nin): <u> おい</u>		_ Date Calib	rated: <u>3/27 /2008</u>		
SAMPLING DA	ATA					_				,
Sample Date:	3/ <b>2</b> 7/2008			ple Time: O90	5			VOCs, SVOCs, Tota	al PCBs, Dissolved PC	)Bs
Sample Method:	Stainless Steel Mons	oon	Sam	ple Flow Rate: 200	5		Date Calib	orated: NA		
COMMENTS:							Form	ous Iron (Filtered 0	2 Micron) - A IA	
			•					do non (i illered o	Z WIGION - POLI	

PROJECT NAME: DATE: 3/27		PROJECT WEATHER	NUMBER: <u>2156</u> : <u>P</u> NEYCAS	61996.00001 -+	FI	ELD PERSONNEL:	M. Corbett, E	3. Howland		
MONITORING WE			·	SAMPL	E ID:	PMAMW	03S-0308			
INITIAL DATA  Well Diameter: 2 Total Well Depth (b Depth to Water (bto Depth to LNAPL/DN Depth to Top of Sc Screen Length:	toc): <u>27.40</u> c): <u>/6.16</u> IAPL (btoc): reen (btoc): 22.71f	ft If Depth to Top ft Place Pump at ft If Depth to Top ft Place Pump at	of Screen is > Depti : Total Well Depth - of Screen is < Depti : Total Well Depth -	de LNAPL or DNAPL): h to Water AND Screen L 0.5 (Screen Length + DN/ th to Water AND Water Co (0.5 X Water Column Heig mn height is < 4 ft, Place	APL Column Height Diumn Height and S Int + DNAPL Colum	creen Length are ( 4ft	ft btoc	Volume of Flow Through Minimum Purge Volume: (3 x Flow Through Cell Ambient PID/FID Reading Wellbore PID/FID Reading	= Volume) <u>1500</u>	mL ppm ppm
PURGE DATA Pump Type:	Stainless Steel Mo	nsoon								
Purge Volume (mL)  0 1000 2000 3000 4000 5000	Time 1950 1455 1500 1505 1510 1515	Depth to Water (ft)	Color Cloudy clear Clear Clear Clear Clear Clear	Odor chemical-like	pH 6.96 6.94 6.91 6.89 6.88 6.88	Temp (°C) 17.55 17.53 17.52 17.59 17.77 17.77	Cond. (ms/cm) /-337 /-348 /-356 /-355 /-353 /-344	Turbidity (NTUs) 40.6 28.3 19.6 18.4 15.4 8.96	DO (mg/l)  1, 22  0, 98  0.35  0.25  0.27  0.79	ORP (mv) /9.6 /9.9 /7./ /0.3 
Start Time: Stop Time: SAMPLING DATES Ample Date: Sample Method: COMMENTS:	1450 /520 TA /27 /2008 Stainless Steel Mons	oon	Av Sa	apsed Time: 30 erage Purge Rate (mL/mi		) 1530	_ Date C	alibrated: 3/ 27 /2008	YSI 556 and LaMotte PCBs, Dissolved PCB	
				_			Fe	errous Iron (Filtered 0.2	Micron) = NA	

PROJECT NAME: DATE: 3/27		PROJECT		1996,00001 >O'S		FIELD PERSONNEL:	M. Corbett, B. H	lowland		
	ELL ID: PMAMW	O3M	1. 150004 C	SAMI	PLE ID:	PMAMW	03M-0308	_		-
INITIAL DATA  Well Diameter: 2  Total Well Depth (both to Water (btoth to LNAPL/DF) Depth to Top of Soft Screen Length: 2	otoc): <u>61.84</u> oc): <u>16.3-6</u> NAPL (btoc): —— creen (btoc): <u>57.07</u>	_ft	o of Screen is > Depth :: Total Well Depth – 0 o of Screen is < Depth :: Total Well Depth – ((	0.5 X Water Column He	Lenth is (4 feet, NAPL Column Heig Column Height and eight + DNAPL Cole	ght) = d Screen Length are ( 4ft umn Height) = Well Depth - 2 ft =	ft btoc , A ft btoc W	olume of Flow Throug inimum Purge Volum (3 x Flow Through Ce mbient PID/FID Readi /ellbore PID/FID Readi	e =    Volume) <u>1500</u>   ng:	mL ppm ppm
PURGE DATA Pump Type:	Stainless Steel M	onsoon								
Purge Volume (mL)	Time	Depth to Water (ft)	Color	Odor	рН	Temp (°C)	Cond. (ms/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)
7000	14 10	16.36	Black	Chem like	9.70	17.31	2.436	Error *	0.46	-9.1
X,000	14 15	16.36			9.70	17.89	2,454	Error	0.19	-7.9
3,000	14 20	16.56			9.72	17.59	2.506	Error	9.15	-7.5
7,000	1425	16.36	<del>                                     </del>	<del>                                     </del>	9.70	17.59	2.500	Error	0.13	-7. <del>9</del>
5,000	: 1 30	16:30		Ψ		17.53	<i>Q. 4 (2)</i>	Error	0.10	
Start Time: JV (	3ර			psed Time: <u>25 m</u> prage Purge Rate (mL/			Water Que	ality Meter ID:	YSI 556 and LaMor	te 2020
Sample Date: Sample Method:	TA 3/ ユフ /2008 Stainless Steel Mon	soon	Sar Sar	nple Time: 145.0	DO MYMIN	<u> </u>	Analysis:  Date Calit	VOCs, SVOCs, Totorated: NA	al PCBs, Dissolved PC	CBs
COMMENTS:  121ph case	sor due to de	on this we medochiec	() 4) of water.				Ferro	ous Iron (Filtered 0.	.2 Micron) = <u> </u>	1

# ${\color{red}\textbf{LOW FLOW GROUNDWATER SAMPLING DATA SHEET}}$

PROJECT NAME: DATE: 3/3/		PROJECT	NUMBER: 215619	996.00001	FIE	ELD PERSONNEL:	M. Corbett, E	3. Howland		
	ELL ID: PMAMW04S	WEATHER	: 60s, doud	Y SAMPI	LE ID:	PMAMWO	4S-0308			
INITIAL DATA										
Well Diameter: 2		Water Column	Height (do not include	LNAPL or DNAPL):			ft btoc	Volume of Flow Through	Cell ): 500	mL
Total Well Depth (b		If Depth to Top	of Screen is > Depth t	o Water AND Screen L	enth is (4 feet,			Minimum Purge Volume	=	
Depth to Water (bto	oc): <u>/3.95</u> ft NAPL (btoc): <u>().(()</u> ft		: Total Well Depth - 0.5 of Screen is < Depth				ft btoc	(3 x Flow Through Cell Ambient PID/FID Readin	l Volume) <u>1500</u>	mL
Depth to Top of Sc	reen (btoc): 20.99 ft	Place Pump at	: Total Well Depth – (0.	io Waler AND Waler C 5 X Water Column Hei	oiumn neight and Si aht + DNAPL Colum	creen Lengin are ( 411, n Height) =	ft btoc	Wellbore PID/FID Readin		ppm ppm
Screen Length:	5 ft	If Screen Leng	th and/or water column	height is < 4 ft, Place	Pump at: Total Well	Depth - 2 ft =	ft btoc	Trembere Fibra is reading	'9	ppiii
PURGE DATA Pump Type:	Stainless Steel Monso	oon_								
Purge Volume		Depth to	1			Temp	Cond.	Turbidity	DO	ORP
(mL)	Time	Water (ft)	Color	Odor	pH	(°C)	(ms/cm)	(NTUs)	(mg/l)	(mv)
200	09/8	/3.79	orangel y ellow	Chen-like	7.12	17.64	2.067	189	4.80	-7.0
1200	0923	13.79	+ 1	_ Strong	6.89	17.50	2.215	/35	1.04	-2.7
3200	0923	13.79	<del>                                     </del>	$\longrightarrow$ $\prime$	6.86	17.41	2.233	(08	0.65	-2.0
3200 1200 5200	0938	13.79	<del>  \</del>		6.86	17.57	2.230	48.5	0.57	-2.و
\$200	0943	13.79	H. Yellow	<del>                                     </del>	le-86	17.6	2.239	57.0	0.35	-2.3 -2.5
6200	0948	13.79	1	1	1. 81.	17.68	3.274	38.9	0.23	-2.7
7200	0953	13.79			6.87	17.15	2.255	38.9	0.33	- 2.7
2200	0959	13.19	, V .		6.87	17.77	2.261	34.8	0.21	-3.8
9200	1003	13.79	Goudy		6.86	17.74	2 270	33.9	0.23	~4.2
/o 200	1008	13.79	clear		4.86	17.73	2.271	33.9	0.28	-4.3
11200	1013	/3.75			6.86	17.68	2.275	28.5	0.18	-4.3 -2.8
2200	1018	13.79	1 1	<u> </u>	4.96	17.72	2.274	23.5	0.19	-2.8
13200	1023	13.19	1 3/		4.81	17.82	2.215	28.0	0.23	- 8.3
14200	1028	13.19	- V	Ψ	6.83	18.02	2.281	23.7	0.31	-8.4
Start Time:	0916			sed Time: 74,			Water (	Quality Meter ID:	YSI 556 and LaMott	te 2020
Stop Time:	030		Aver	age Purge Rate (mL/m	in): <u>200</u>		Date C	alibrated: 3/ <b>3</b> / /2008		
SAMPLING DA	ΤΔ	_					_			
_	/ 3( /2008			ple Time:	1030		Analys	<u>-</u>	I PCBs, Dissolved PC	;Bs
Sample Method:	Stainless Steel Monsoor	1	Sam <sub>i</sub>	ole Flow Rate:	200 mc/min		Date C	alibrated: NA		
COMMENTS:	o hold time issues an	d-sample conta	niner-breakage				Ee	ym rrous Iron (Filtered 0.2	<del>≧Micron) =</del> _ (O	A

PROJECT NAME: DATE: 3/ 3/8 MONITORING WE	/2008	PROJECT N	IUMBER: 215619			LD PERSONNEL: PSMW02		owland		
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# Appendix B Chains-of-Custody

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# Appendix C Quality Assurance Report

Solutia Inc. W.G. Krummrich Facility Sauget, Illinois

PCB Mobility and Migration Investigation 1<sup>st</sup> Quarter 2008 Data Report

Prepared for

Solutia Inc. 575 Maryville Centre Drive St. Louis, MO 63141

July 2008



URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63100 (314) 429-0100 **Project # 21561996.00001** 

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#### 1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in March 2008 at the Solutia W.G. Krummrich plant as part of the 1<sup>st</sup> Quarter 2008 PCB Mobility and Migration Investigation. The samples were collected by URS Corporation personnel and analyzed by TestAmerica Laboratories, Inc. (TestAmerica) located in Savannah, Georgia using USEPA methodologies. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs).

One hundred percent of the data were subjected to a data quality review (Level III validation). The Level III validations were performed in order to confirm that the analytical data provided by TestAmerica were acceptable in quality for their intended use.

A total of 11 samples (seven investigative groundwater samples, one field duplicate, one matrix spike and matrix spike duplicate (MS/MSD) pair, and one equipment blank) were analyzed by TestAmerica. These samples were analyzed as Sample Delivery Groups (SDGs) KPM015 utilizing the following USEPA Methods:

- Method 8260B for VOCs (including dichlorobenzenes due to potential volatilization losses associated with Method 8270C).
- Method 8270C for SVOCs
- Method 680 for PCBs

In addition, three trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999, and the PCB Mobility and Migration Investigation Work Plan, (October 2005).

The above guidelines provided the criteria to review the data. Additional quantitative criteria are given in the analytical methods. Qualifiers assigned by the data reviewer have been applied to the laboratory reporting forms (Form-1s). The qualifiers indicate data that did not meet acceptance criteria and corrective actions were not successful or not performed. The various qualifiers are explained in **Tables 1** and **2** below.



#### **TABLE 1 Laboratory Data Qualifiers**

Lab Qualifier	Definition
U	Analyte was not detected at or above the reporting limit.
*	LCS, LCSD, MS, MSD, MD or surrogate exceeds the control limits.
E	Result exceeded the calibration range, secondary dilution required.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
Н	Sample was prepped or analyzed beyond the specified holding time.
В	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

#### **TABLE 2 URS Data Qualifiers**

URS Qualifier	Definition
U	The analyte was analyzed for but was not detected.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Based on the criteria outlined, it is recommended that the results reported for these analyses be accepted for their intended use. Acceptable levels of accuracy, precision, and representativeness (based on MS/MSD, LCS, surrogate compounds and field duplicate results) were achieved for this data set, except where noted in this report. In addition, analytical completeness, defined to be the percentage of analytical results which are judged to be valid, including estimated detect (**J**) or estimated non-detect (**UJ**) values was 100 percent, which meets the completeness goal of 95 percent.



The data review included evaluation of the following criteria:

#### **Organics**

- Receipt condition and sample holding times
- Laboratory method blanks, field equipment blanks and trip blank samples
- Surrogate spike recoveries
- Laboratory control sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample recoveries and Relative Percent Difference (RPD) values
- Field duplicate results
- Results reported from dilutions
- Internal standard responses

#### 2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance.

Extractions and/or analyses were completed within the recommended holding time requirements, with the exception of PCB sample PMAMW02S-0308-EB (7 days) was extracted outside holding time criteria (7 days). Sample PMAMW02S-0308-EB is an equipment blank; equipment blanks are quality control samples and are not qualified. PCB sample PMAMW04S-F-0308 (24 days) was re-extracted outside holding time criteria (7 days). Due to the stability of PCBs, professional judgment was used to not reject data.

Field ID	Parameter	Analyte	Qualification
PMAMW04S-F-0308	PCBs	All detects/nondetects	J/UJ

#### 3.0 TRIP BLANKS, LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

Trip blank samples are used to assess VOC cross contamination of samples during shipment to the laboratory. One trip blank was submitted with each cooler shipped containing samples for VOC analyses for a total of two trip blank samples. All analytes were not detected in the trip blanks.

Laboratory method blank samples evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blank samples were analyzed at the method prescribed frequencies. No analytes were detected in any of the method blanks.



Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. All equipment blank samples were nondetect with the exception of those in data reviews discussed further in **Appendix D**. Analytical data that required qualification based on equipment blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
PMAMW03M-0308	VOCs	Benzene	23	U
PMAMW03M-0308	VOCs	Chlorobenzene	2.7	U

#### 4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. All samples analyzed for VOCs, SVOCs, and PCBs were spiked with surrogate compounds during sample preparation. USEPA National Functional Guidelines for Organic Data Review state how data is qualified, if surrogate spike recoveries do not meet evaluation criteria. Surrogate recoveries were within evaluation criteria with the exception of those surrogates in data reviews discussed further in **Appendix D**. No qualifications of data was required due to surrogate recoveries.

#### 5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. All LCS recoveries were within evaluation criteria with the exception of the LCSs in the data reviews discussed further in **Appendix D**.

Analytical data that required qualification based on LCS recoveries are included in the table below. Data that was reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Also if the LCS was related to QA/QC samples such as trip blanks and MS/MSDs, no qualifiers were assigned. Qualifications due to LCS recoveries outside evaluation criteria are summarized in the table below.

Field ID	Parameter	Analyte	Qualification
PMAMW01S-0308	SVOCs	2,4-Dichloronitrobenzene	UJ
PMAMW01S-0308	SVOCs	3,4-Dichloronitrobenzene	UJ
PMAMW01M-0308	SVOCs	2,4-Dichloronitrobenzene	UJ
PMAMW01M-0308	SVOCs	3,4-Dichloronitrobenzene	UJ

# 6.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

MS/MSD samples are analyzed to assess the accuracy and precision of the analytical process on an analytical sample in a particular matrix. MS/MSD samples were required to be collected at a frequency of one per 20 investigative samples in accordance with the work plan. URS Corporation submitted one MS/MSD sample set for seven investigative samples, meeting the work plan frequency requirement.



No qualifications were made to the data if the MS/MSD percent recoveries were zero due to dilutions or if the percent RPD was the only factor outside of criteria. Also, USEPA National Functional Guidelines for Organic Data Review (October 1999) states that organic data should not be qualified based on MS/MSD criteria alone. Therefore, if recoveries were outside evaluation criteria due to matrix interference or abundance of analytes, no qualifiers were assigned unless these analytes had other quality control criteria outside evaluation criteria.

Sample PMAMW01S-0308 was spiked and analyzed for VOCs, SVOCs, PCBs and filtered PCBs. MS/MSD recoveries and RPDs that were outside evaluation criteria are discussed further in the data reviews in **Appendix D**. No qualification of data was required due to MS/MSD recoveries.

#### 7.0 FIELD DUPLICATE RESULTS

Field duplicate results are used to evaluate precision of the entire data collection activity, including sampling, analysis and site heterogeneity. When results for both duplicate and sample values are greater than five times the practical quantitation limit (PQL), satisfactory precision is indicated by an RPD less than or equal to 25 percent for aqueous samples. Where one or both of the results of a field duplicate pair are reported at less than five times the PQL, satisfactory precision is indicated if the field duplicate results agree within 2.5 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

One field duplicate sample was collected for the seven investigative samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). All field duplicate RPDs were within evaluation criteria with the exception of the field duplicates discussed further in data reviews in **Appendix D**. Qualifications based on field duplicates are summarized in the table below.

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	Benzene	200	J
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	Chlorobenzene	199	J
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	1,2-Dichlorobenzene	200	J/UJ
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	1,3-Dichlorobenzene	200	J/UJ
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	1,4-Dichlorobenzene	200	J/UJ
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	Ethylbenzene	200	J/UJ
PMAMW03M-0308	PMAMW03M-0308-AD	VOCs	Toluene	200	J/UJ
PMAMW03M-0308	PMAMW03M-0308-AD	SVOCs	4-Chloroaniline	200	J/UJ

# 8.0 INTERNAL STANDARD RESPONSES

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent for VOCs and SVOCs. For the PCBs (Method 680), the IS areas must be within +/- 30 percent of the preceding calibration verification (CV) IS value. Also, the IS retention times must be within 30 seconds of the preceding IS CV retention time. If the IS area count is outside criteria, Method 680 indicates the mean IS area obtained during the initial calibration (ICAL) (+/- 50 percent) should be used.



The internal standards area responses for the VOCs, SVOCs and PCBs were verified for the data reviews. IS responses met the criteria as described above, in samples with the exception of the IS responses in the data reviews discussed further in **Appendix D**. Qualifications based on IS responses were not required.

#### 9.0 RESULTS REPORTED FROM DILUTIONS

VOC and SVOC samples were diluted and reanalyzed due to the original results exceeding the calibration range of the instrument. These results were qualified by the laboratory with "E" qualifiers. Data for the original runs were reported except for the data results that were "E" qualified. The samples that had "E" qualifiers were diluted and reanalyzed. The diluted sample results of the "E" qualifiers were the only results reported from the diluted samples.



# Appendix D Groundwater Analytical Results

# SDG KPM015

# Results of Samples from Wells:

PMAMW01S

PMAMW01M

PMAMW02S

PMAMW02M

PMAMW03S

PMAMW03M

PMAMW04S

# Solutia Krummrich Data Review

**Laboratory SDG: KPM015** 

**Reviewer: Tony Sedlacek** 

**Date Reviewed: 5/31/2008** 

Guidance: USEPA Contract Laboratory Program National Functional Guidelines for

Organic Data Review (USEPA 1999).

**Applicable Work Plan:** PCB Mobility and Migration Investigation Work Plan (URS 2005)

Sample Identification #	Sample Identification #
TB01-0308	PMAMW01S-0308
PMAMW01S-F-0308	PMAMW01M-0308
PMAMW01M-F-0308	TB02-0308
PMAMW02M-0308	PMAMW02M-F-0308
PMAMW02S-0308	PMAMW02S-F-0308
PMAMW03M-0308	PMAMW03M-F-0308
PMAMW03S-0308	PMAMW03S-F-0308
PMAMW03M-0308-AD	PMAMW03M-F-0308-AD
PMAMW02S-0308-EB	PMAMW02S-F-0308-EB
PMAMW04S-0308	TB03-0308
PMAMW04S-F-0308	

# 1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes

# 2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that a PCB samples were re-extracted outside holding. SVOC and PCB surrogates in some samples were diluted out and not recovered. VOC and SVOC LCS recoveries were outside evaluation criteria. PCB internal standard recoveries were outside evaluation criteria. VOCs were detected in the equipment blank. VOC and SVOC MS/MSD recoveries were outside evaluation criteria. Some VOC, SVOC and PCB samples were diluted due to high levels of target analytes. Although not indicated it the laboratory case narrative,

VOCs and SVOCs parent and field duplicate samples were qualified due to relative percent difference. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated that one out of six 1-Liter ambers for samples PMAMW01S-F-0308 MSD, PMAMW02S-0308 and PMAMW02S-F-0308-EB were received broken by the laboratory. Sufficient sample volume was available to complete all requested analyses. Also, two out of three VOA vials for sample TB02-0308 were received by the laboratory with headspace. Analysis was completed remaining VOA vial without headspace. In addition. PMAMW04S-F-0308 was received by the laboratory for PCB analysis and PCB analysis was not requested on the COC. The laboratory contacted URS and URS confirmed PCB analysis for the listed samples. Upon review of the data, it appears sample containers collected from monitoring wells PMAMW03S and PMAMW03M were mislabeled during field sampling. Sample results associated with sample PMAMW03S-0308 are the sample results for PMAMW03M-0308 and have been reconciled on the Form 1's and in the report.

# 3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

No, PCB sample PMAMW02S-0308-EB (7 days) was extracted outside holding time criteria (7 days). Sample PMAMW02S-0308-EB is an equipment blank; equipment blanks are quality control samples and are not qualified. PCB sample PMAMW04S-F-0308 (24 days) was re-extracted outside holding time criteria (7 days). Due to the stability of PCBs, professional judgment was used to not reject data.

Field ID	Parameter	Analyte	Qualification
PMAMW04S-F-0308	PCBs	All	J/UJ
		detects/nondetects	

#### 4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration	Units
PMAMW02S-0308-EB	VOCs	Benzene	8.7	μg/L
PMAMW02S-0308-EB	VOCs	Chlorobenzene	17	μg/L
PMAMW02S-0308-EB	VOCs	1,4-Dichlorobenzene	1.0	μg/L

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Parameter	Analyte	New RL	Qualification
PMAMW03S-0308	VOCs	Benzene	23	U
PMAMW03S-0308	VOCs	Chlorobenzene	2.7	U

# 5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	RPD	LCS Criteria
680-102438	VOCs	Acetone 205		N/A	17-175
680-102438	VOCs	2-Butanone <b>159</b>		N/A	33-157
680-102552	VOCs	Acetone 189		N/A	17-175
680-103044	VOCs	Carbon disulfide	142	N/A	55-131
680-101542	SVOCs	2,4-Dichloronitrobenzene	69	N/A	70-130
680-101542	SVOCs	3,4-Dichloronitrobenzene	66	N/A	70-130

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
PMAMW01S-0308	SVOCs	2,4-Dichloronitrobenzene	UJ
PMAMW01S-0308	SVOCs	3,4-Dichloronitrobenzene	UJ
PMAMW01M-0308	SVOCs	2,4-Dichloronitrobenzene	UJ
PMAMW01M-0308	SVOCs	3,4-Dichloronitrobenzene	UJ

# **6.0** Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No, PCB surrogate Decachlorobiphenyl-13C12 was diluted out and not recovered in samples PMAMW04S-0308, PMAMW04S-F-0308. SVOC surrogates 2-Fluorobiphenyl, 2-Fluorophenol, nitrobenzene-d<sub>5</sub>, phenol-d<sub>5</sub> and terphenyl-d<sub>14</sub> in

sample PMAMW02M-0308 were diluted out and not recovered. All SVOC surrogates in samples PMAMW03S-0308, PMAMW03M-0308-AD and PMAMW04S-0308 were diluted out and not recovered. No qualification of data was required.

Field ID	Parameter	Surrogate	Recovery	Criteria
PMAMW01M-0308	SVOCs	2-Fluorobiphenyl	49	50-113

Analytical data that required qualification based on surrogate data are included in the table below. Quality control samples were not qualified if surrogate recoveries were outside evaluation criteria. Since only one base/neutral fraction surrogate was outside criteria and Functional Guidelines indicates to qualify data if two or more surrogates per SVOC fraction are outside criteria, no qualification of the SVOC data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

# 7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, sample PMAMW01S-0308 was spiked and analyzed for VOCs, SVOCs, and PCBs. Sample PMAMW01S-F-0308 was spiked and analyzed for PCBs.

Were MS/MSD recoveries within evaluation criteria?

No

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
PMAMW01S-0308	VOCs	Dibromomethane	122/128	5	78-119/30
PMAMW01S-0308	VOCs	Dichlorobromomethane	137/135	2	78-127/30
PMAMW01S-0308	VOCs	1,2-Dichloroethane	131/ <b>134</b>	2	66-132/30
PMAMW01S-0308	VOCs	Ethylene Dibromide	138/137	1	80-121/30
PMAMW01S-0308	VOCs	Trans-1,2-Dichloroethene	68/69	1	72-131/30
PMAMW01S-0308	VOCs	trans-1,3-Dichloropropene	134/137	2	73-128/30
PMAMW01S-0308	VOCs	1,1,2-Trichloroethane	125/129	3	75-121/30
PMAMW01S-0308	VOCs	Vinyl chloride	59/ <b>57</b>	2	59-144/50
PMAMW01S-0308	SVOCs	Aniline	46/0	200	10-114/40
PMAMW01S-0308	SVOCs	bis(2-chloroethyl)ether	<b>38</b> /52	30	43-110/40
PMAMW01S-0308	SVOCs	bis(chloroisopropyl) ether	<b>36</b> /50	32	42-110/40
PMAMW01S-0308	SVOCs	4-chloroaniline	50/22	75	10-110/40

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
PMAMW01S-0308	SVOCs	2-Chlorophenol	<b>40</b> /63	46	47-110/40
PMAMW01S-0308	SVOCs	Isophorone	<b>45</b> /61	30	50-111/40
PMAMW01S-0308	SVOCs	2-Methylphenol	<b>41</b> /64	42	46-110/40
PMAMW01S-0308	SVOCs	Nitrobenzene	46/111	83	46-110/40
PMAMW01S-0308	SVOCs	3 & 4 Methylphenol	43/65	41	43-110/40
PMAMW01S-0308	SVOCs	Phenol	<b>34</b> /56	48	39-110/40
PMAMW01S-0308	SVOCs	Pyridine	38/0	200	10-110/40
PMAMW01S-0308	SVOCs	1-Chloro-3-nitrobenzene	<b>56</b> /78	32	70-130/40
PMAMW01S-0308	SVOCs	2,4-Dichloronitrobenzene	<b>58</b> /74	24	70-130/40
PMAMW01S-0308	SVOCs	3,4-Dichloronitrobenzene	<b>57</b> /72	24	70-130/40
PMAMW01S-0308	SVOCs	2-chloronitrobenzene/4- chloronitrobenzene	<b>59</b> /79	29	70-130/40

Analytical data that required qualification based on MS/MSD data are included in the table below. USEPA National Functional Guidelines for Organic Data Review indicates that organic data should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria, therefore no qualification of the data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

# 8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

# No

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
PMAMW03M-F-0308-AD	PCBs	Chrysene-d <sub>12</sub>	35409	18799-34911
PMAMW01M-F-0308	PCBs	Chrysene-d <sub>12</sub>	44494	18799-34911
PMAMW01S-0308	PCBs	Chrysene-d <sub>12</sub>	54553	29238-54300
PMAMW01M-0308	PCBs	Chrysene-d <sub>12</sub>	68855	29238-54300
PMAMW03M-F-0308	PCBs	Chrysene-d <sub>12</sub>	63272	66345-123211

Analytical data that required qualification based on IS data are included in the table below. Internal standard areas outside criteria in quality control samples did not require qualification. Analytical data which were reported as nondetect and associated with internal standard recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Internal standard areas for chrysene-d<sub>12</sub> recovered within the initial calibration average internal standard area for sample PMAMW03S-F-0308; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
N/A			

# 9.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

Were laboratory duplicate sample RPDs within criteria?

N/A

Field ID	Parameter	Analyte	RPD	Criteria
N/A				

Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
N/A			

# 10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
PMAMW03S-F-0308	PMAMW03M-F-0308-AD
PMAMW03S-0308	PMAMW03M-0308-AD

Were field duplicates within evaluation criteria?

Yes

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
N/A					

# 11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

No

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run *was not* reported:

Field ID	Parameter	Dilution Factor
PMAMW01S-0308	VOCs	5
PMAMW01M-0308	VOCs	10
PMAMW02M-0308	VOCs	20
PMAMW02M-0308	VOCs	100
PMAMW03M-0308	VOCs	20
PMAMW03M-0308	VOCs	50
PMAMW03M-0308-AD	VOCs	20
PMAMW03M-0308-AD	VOCs	50
PMAMW04S-0308	PCBs	10
PMAMW04S-F-0308	PCBs	10
PMAMW02M-0308	SVOCs	5
PMAMW03M-0308	SVOCs	5
PMAMW03M-0308-AD	SVOCs	5

# 12.0 Additional Qualifications

Were additional qualifications applied?

No

# **SAMPLE RESULTS**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

TB01-0308

Lab Sample ID:

680-35403-1TB

Client Matrix:

Water

Date Sampled:

03/26/2008 0000

Date Received:

03/27/2008 1220

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102644

Instrument ID: Lab File ID:

GC/MS Volatiles - O o2125.d

Dilution:

5030B

5 mL

1.0

Initial Weight/Volume:

Date Analyzed:

04/08/2008 1913

Final Weight/Volume:

5 mL

Date	Prepared:
------	-----------

04/08/2008 1913

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	. 1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	Ü	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	Ü	10
lodomethane	5.0	Ü	5.0
Isobutyl alcohol	40	Ü	40
Methacrylonitrile	20	Ü	20
Methylene Chloride	5.0	Ü	5.0
2-Butanone (MEK)	10	Ü	10
4-Methyl-2-pentanone (MIBK)	10	Ü	10
Methyl methacrylate	1.0	Ü	1.0
Pentachloroethane	5.0	Ü	5.0
Propionitrile	20	Ü	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

Page 7 of 155 TestAmerica Savannah

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

TB01-0308

Lab Sample ID:

680-35403-1TB

Client Matrix:

Water

Date Sampled:

03/26/2008 0000

Date Received:

03/27/2008 1220

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B 5030B Analysis Batch: 680-102644

Instrument ID:

GC/MS Volatiles - O

Preparation:

Lab File ID:

Initial Weight/Volume:

o2125.d

Dilution:

1.0

Initia

5 mL

Date Analyzed: Date Prepared: 04/08/2008 1913 04/08/2008 1913 Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	RL	
Tetrachloroethene	1.0	U	1.0	
Toluene	1.0	U	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	2.0	
trans-1,2-Dichloroethene	1.0	U	1.0	
trans-1,3-Dichloropropene	1.0	U	1.0	
1,1,1-Trichloroethane	1.0	U	1.0	
1,1,2-Trichloroethane	1.0	U	1.0	
Trichloroethene	1.0	U	1.0	
Trichlorofluoromethane	1.0	U	1.0	
1,2,3-Trichloropropane	1.0	U	1.0	
Vinyl acetate	2.0	U	2.0	
Vinyl chloride	1.0	U	1.0	
Xylenes, Total	2.0	U	2.0	
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	97	75 - 120		
Dibromofluoromethane	95	75 - 121		
Toluene-d8 (Surr)	103	75 - 120		

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID:

680-35403-2

Client Matrix:

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation:

Dilution:

8260B

Analysis Batch: 680-102644

Instrument ID: Lab File ID:

GC/MS Volatiles - O

o2127.d

5030B

5.0

Date Analyzed: Date Prepared: 04/08/2008 1941 04/08/2008 1941

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Acetone         120         U           Acetolitrile         200         U           Acrolein         100         U           Acrolein         100         U           Benzene         6,9         Bromoform           Bromoform         5.0         U           Bromomethane         5.0         U           Carbon disulfide         10         U           Carbon tetrachloride         5.0         U           Chlorodhromethane         5.0         U           2-Chloro-1,3-butadiene         5.0         U           Chlorodibromomethane         5.0         U           Chlorodibromomethane         5.0         U           Chlorothane         5.0         U           Chloroferm         5.0         U           Chloroptomethane         5.0         U           1,2-Dichloropropone         5.0         U           1,2-Dichloroptopropone         5.0         U           1,2-Dichlorobenzene         14         1.3-Dichlorobenzene           1,4-Dichlorobenzene         5.0         U           1,4-Dichlorothane         5.0         U           1,1-Dichlorothane         5.0         U <th>er RL</th>	er RL
Acrolein	120
Acrylonitrile	200
Benzene   6.9	100
Bromoform         5.0         U           Bromomethane         5.0         U           Carbon disulfide         10         U           Carbon tetrachloride         5.0         U           Chlorobenzene         440         U           2-Chloro-1,3-butadiene         5.0         U           Chlorodibromomethane         5.0         U           Chloroform         5.0         U           Chloroform         5.0         U           Chloromethane         5.0         U           3-Chloro-1-propene         5.0         U           1,2-Dichloropropene         5.0         U           1,2-Dichloropene         5.0         U           1,2-Dichlorobenzene         5.0         U           Dichlorobenzene         5.0         U           Dichlorodifluoromethane         5.0         U <td>100</td>	100
Bromomethane         5.0         U           Carbon disulfide         10         U           Carbon tetrachloride         5.0         U           Chlorobanzene         440         C           2-Chloro-1,3-butadiene         5.0         U           Chlorodibromomethane         5.0         U           Chloroform         5.0         U           Chloroform         5.0         U           Chloroform         5.0         U           Chloro-1-propene         5.0         U           cis-1,3-Dichloropropene         5.0         U           1,2-Dibromo-3-Chloropropane         5.0         U           Dibromomethane         5.0         U           1,2-Dichlorobenzene         5.0         U           1,2-Dichlorobenzene         5.0         U           Dichlorobromomethane         5.0         U           Dichlorodifluoromethane         5.0         U           1,1-Dichloroethane         5.0         U           1,2-Dichloroethane         5.0         U           1,2-Dichloropopane         5.0         U           Ethylene Dibromide         5.0         U           Ethyl methacrylate         5.0 </td <td>5.0</td>	5.0
Carbon disulfide         10         U           Carbon tetrachloride         5.0         U           Chlorobenzene         440         2           2-Chloro-1,3-butadiene         5.0         U           Chlorodibromomethane         5.0         U           Chlorotethane         5.0         U           Chloroform         5.0         U           Chlorotethane         5.0         U           3-Chloro1-propene         5.0         U           cis-1,3-Dichloropropene         5.0         U           3-Chloro2-Propene         5.0         U           cis-1,3-Dichloropropane         5.0         U           1,2-Dichloropropane         5.0         U           1,2-Dichlorobenzene         5.0         U           1,2-Dichlorobenzene         5.0         U           Dichlorobenzene         5.0         U           Dichlorodifluoromethane         5.0         U           1,1-Dichloroethane         5.0         U           1,2-Dichloropropane         5.0         U           Ethylene Dibromide         5.0         U           Ethylene Dibromide         5.0         U           Ethylene Dibromide	5.0
Carbon tetrachloride         5.0         U           Chlorobenzene         440         2-Chloro-1,3-butadiene         5.0         U           Chlorodibromomethane         5.0         U         Chlorodibromomethane         5.0         U           Chlorotethane         5.0         U         Chloroform         5.0         U           Chloro-1-propene         5.0         U         U         Chloro-1-propene         5.0         U           cis-1,3-Dichloropropene         5.0         U         U         Dibromomethane         5.0         U         U           J,2-Dibromo-3-Chloropropane         5.0         U         U         Dibromomethane         5.0         U         U         Dibromomethane	5.0
Chlorobenzene       440         2-Chloro-1,3-butadiene       5.0       U         Chlorodibromomethane       5.0       U         Chloroform       5.0       U         Chloroform       5.0       U         Chloromethane       5.0       U         3-Chloro-1-propene       5.0       U         cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       U         1,3-Dichlorobenzene       5.0       U         Dichlorobenzene       5.0       U         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,1-Dichloroethene       5.0       U         1,1-Dichloropapane       5.0       U         Ethylene Dibromide       5.0       U         Ethylene Dibromide       5.0       U         Ethylene Dibromide       5.0       U         Sobutyl alcohol       U         Methacryloni	10
2-Chloro-1,3-butadiene       5.0       U         Chlorodibromomethane       5.0       U         Chloroform       5.0       U         Chloromethane       5.0       U         3-Chloro-1-propene       5.0       U         cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       1,3-Dichlorobenzene         1,3-Dichlorobenzene       5.0       U         1,4-Dichlorobenzene       5.0       U         Dichlorobromomethane       5.0       U         1,1-Dichloroethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloropapane       5.0       U         Ethylenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U<	5.0
Chlorodibromomethane         5.0         U           Chloroethane         5.0         U           Chloroform         5.0         U           Chloromethane         5.0         U           3-Chloro-1-propene         5.0         U           cis-1,3-Dichloropropene         5.0         U           1,2-Dibromo-3-Chloropropane         5.0         U           Dibromomethane         5.0         U           1,2-Dichlorobenzene         14         U           1,3-Dichlorobenzene         5.0         U           Dichlorobenzene         5.0         U           Dichlorobenzene         5.0         U           Dichlorodifluoromethane         5.0         U           1,1-Dichlorodethane         5.0         U           1,2-Dichloroethane         5.0         U           1,2-Dichloropethane         5.0         U           1,2-Dichloropropane         5.0         U           Ethylenzene         5.0         U           Ethylene Dibromide         5.0         U           Ethyl methacrylate         5.0         U           2-Hexanone         50         U           Iodomethane         25 <td< td=""><td>5.0</td></td<>	5.0
Chloroethane         5.0         U           Chloroform         5.0         U           Chloromethane         5.0         U           3-Chloro-1-propene         5.0         U           cis-1,3-Dichloropropene         5.0         U           1,2-Dibromo-3-Chloropropane         5.0         U           Dibromomethane         5.0         U           1,2-Dichlorobenzene         14         U           1,3-Dichlorobenzene         59         U           Dichlorobromomethane         5.0         U           1,4-Dichloromethane         5.0         U           1,1-Dichloroethane         5.0         U           1,1-Dichloroethane         5.0         U           1,2-Dichloropropane         5.0         U           Ethylbenzene         5.0         U           Ethylmethacrylate         5.0         U           2-Hexanone         50         U           Iodomethane         25         U           Isobutyl alcohol         200         U           Methacrylonitrile         100         U           Methylene Chloride         25         U           2-Butanone (MEK)         50         U	5.0
Chloroform       5.0       U         Chloromethane       5.0       U         3-Chloro-1-propene       5.0       U         cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       1         1,3-Dichlorobenzene       59       U         Dichlorobromomethane       5.0       U         Dichlorobromomethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylencorporopane       5.0       U         Ethylene Dibromide       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U	5.0
Chloromethane       5.0       U         3-Chloro-1-propene       5.0       U         cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       1         1,3-Dichlorobenzene       50       U         Dichlorobenzene       59       U         Dichlorobenzene       50       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4	5.0
3-Chloro-1-propene       5.0       U         cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       U         1,3-Dichlorobenzene       5.0       U         Dichlorobromomethane       5.0       U         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U <td>5.0</td>	5.0
cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       U         1,3-Dichlorobenzene       5.0       U         1,4-Dichlorobenzene       59       U         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylbenzene       5.0       U         Ethylmethacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U <td>5.0</td>	5.0
cis-1,3-Dichloropropene       5.0       U         1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       U         1,3-Dichlorobenzene       5.0       U         1,4-Dichlorobenzene       59       U         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylbenzene       5.0       U         Ethylmethacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U <td>5.0</td>	5.0
1,2-Dibromo-3-Chloropropane       5.0       U         Dibromomethane       5.0       U         1,2-Dichlorobenzene       14       U         1,3-Dichlorobenzene       59       U         1,4-Dichlorobenzene       59       U         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylbenzene       5.0       U         Ethylmethacrylate       5.0       U         2-Hexanone       50       U         Isobutyl alcohol       200       U         Methacryloritrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U   <	5.0
Dibromomethane         5.0         U           1,2-Dichlorobenzene         14         U           1,3-Dichlorobenzene         5.0         U           1,4-Dichlorobenzene         59         U           Dichlorobenzene         59         U           Dichlorobenzene         5.0         U           Dichlorodifluoromethane         5.0         U           1,1-Dichloroethane         5.0         U           1,2-Dichloroethane         5.0         U           1,2-Dichloropropane         5.0         U           Ethylbenzene         5.0         U           Ethylene Dibromide         5.0         U           Ethyl methacrylate         5.0         U           2-Hexanone         50         U           Isobutyl alcohol         200         U           Methacrylonitrile         100         U           Methylene Chloride         25         U           2-Butanone (MEK)         50         U           4-Methyl-2-pentanone (MIBK)         50         U           Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100	5.0
1,2-Dichlorobenzene       5.0       U         1,3-Dichlorobenzene       59         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         Dichloroethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
1,3-Dichlorobenzene       5.0       U         1,4-Dichlorobenzene       59         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	. 5.0
1,4-Dichlorobenzene       59         Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Dichlorobromomethane       5.0       U         Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethene       5.0       U         1,1-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Dichlorodifluoromethane       5.0       U         1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,1-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
1,1-Dichloroethane       5.0       U         1,2-Dichloroethane       5.0       U         1,1-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
1,2-Dichloroethane       5.0       U         1,1-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
1,1-Dichloroethene       5.0       U         1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
1,2-Dichloropropane       5.0       U         Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Ethylbenzene       5.0       U         Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Ethylene Dibromide       5.0       U         Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Ethyl methacrylate       5.0       U         2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
2-Hexanone       50       U         Iodomethane       25       U         Isobutyl alcohol       200       U         Methacrylonitrile       100       U         Methylene Chloride       25       U         2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	5.0
Iodomethane         25         U           Isobutyl alcohol         200         U           Methacrylonitrile         100         U           Methylene Chloride         25         U           2-Butanone (MEK)         50         U           4-Methyl-2-pentanone (MIBK)         50         U           Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	50
Isobutyl alcohol         200         U           Methacrylonitrile         100         U           Methylene Chloride         25         U           2-Butanone (MEK)         50         U           4-Methyl-2-pentanone (MIBK)         50         U           Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	25
Methacrylonitrile         100         U           Methylene Chloride         25         U           2-Butanone (MEK)         50         U           4-Methyl-2-pentanone (MIBK)         50         U           Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	200
Methylene Chloride         25         U           2-Butanone (MEK)         50         U           4-Methyl-2-pentanone (MIBK)         50         U           Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	100
2-Butanone (MEK)       50       U         4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	25
4-Methyl-2-pentanone (MIBK)       50       U         Methyl methacrylate       5.0       U         Pentachloroethane       25       U         Propionitrile       100       U         Styrene       5.0       U	50
Methyl methacrylate         5.0         U           Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	50
Pentachloroethane         25         U           Propionitrile         100         U           Styrene         5.0         U	5.0
Propionitrile 100 U Styrene 5.0 U	25
Styrene 5.0 U	100
- <b>4</b>	5.0
111112-10000000000	5.0
1,1,2,2-Tetrachloroethane 5.0 U	5.0
1,1,2,2-10000000000000000000000000000000	0.0

TestAmerica Savannah

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID:

680-35403-2

Client Matrix:

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102644

Instrument ID:

GC/MS Volatiles - O

Preparation:

5030B

Lab File ID:

o2127.d

Initial Weight/Volume:

5 mL

Dilution:

5.0

04/08/2008 1941

Final Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

04/08/2008 1941

Analyte	Result (ug/L)	Qualifier	RL	
Tetrachloroethene	5.0	U	5.0	
Toluene	5.0	U	5.0	
trans-1,4-Dichloro-2-butene	10	U	10	
trans-1,2-Dichloroethene	5.0	U	5.0	
trans-1,3-Dichloropropene	5.0	U	5.0	
1,1,1-Trichloroethane	5.0	U	5.0	
1,1,2-Trichloroethane	5.0	U	5.0	
Trichloroethene	5.0	IJ	5.0	
Trichlorofluoromethane	5.0	IJ	5.0	
1,2,3-Trichloropropane	5.0	U	5.0	
Vinyl acetate	10	U	10	
Vinyl chloride	5.0	U	5.0	
Xylenes, Total	10	U	10	
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101	75 - 120		
Dibromofluoromethane	86	75 - 121		
Toluene-d8 (Surr)	104	75 - 120		

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID: PMAMW01M-0308

03/26/2008 1020 Date Sampled: 680-35403-4 Lab Sample ID: 03/27/2008 1220 Date Received: Client Matrix: Water

#### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B 5030B Preparation:

Analysis Batch: 680-102644

GC/MS Volatiles - O Instrument ID:

Lab File ID: o2129.d

Dilution: 10

Date Prepared:

Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Date Analyzed:

04/08/2008 2010 04/08/2008 2010

Result (ug/L) Qualifier RL Analyte 250 250 U Acetone 400 U 400 Acetonitrile 200 U 200 Acrolein 200 U 200 Acrylonitrile 10 Benzene 650 10 U 10 **Bromoform** Bromomethane 10 U 10 20 Carbon disulfide 20 U U 10 Carbon tetrachloride 10 10 Chlorobenzene 1100 10 2-Chloro-1,3-butadiene 10 U 10 U 10 Chlorodibromomethane U 10 10 Chloroethane U 10 10 Chloroform 10 U Chloromethane 10 U 10 3-Chloro-1-propene 10 cis-1,3-Dichloropropene 10 U 10 U 10 1,2-Dibromo-3-Chloropropane 10 U 10 10 Dibromomethane U 10 1,2-Dichlorobenzene 10 1,3-Dichlorobenzene 10 U 10 1,4-Dichlorobenzene 10 U 10 10 U 10 Dichlorobromomethane 10 U 10 Dichlorodifluoromethane U 10 1,1-Dichloroethane 10 10 U 10 1,2-Dichloroethane 10 U 10 1,1-Dichloroethene 10 U 10 1,2-Dichloropropane U 10 10 Ethylbenzene U 10 Ethylene Dibromide 10 Ethyl methacrylate 10 U 10 U 100 2-Hexanone 100 U 50 Iodomethane 50 U 400 Isobutyl alcohol 400 200 Methacrylonitrile U 200 50 U 50 Methylene Chloride U 100 100 2-Butanone (MEK) U 100 100 4-Methyl-2-pentanone (MIBK) U 10 Methyl methacrylate 10 U 50 50 Pentachloroethane 200 U 200 Propionitrile 10 10 U Styrene U 10 10 1,1,1,2-Tetrachloroethane U 10 1,1,2,2-Tetrachloroethane 10

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01M-0308

Lab Sample ID:

680-35403-4

Client Matrix:

Water

Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102644

Instrument ID:

GC/MS Volatiles - O

Preparation:

5030B

Lab File ID:

o2129.d

Dilution:

10

Initial Weight/Volume:

5 mL

Date Analyzed:

04/08/2008 2010

Final Weight/Volume:

5 mL

Date Prepared:

04/08/2008 2010

Analyte	Result (ug/L)	Qualifier	RL	
Tetrachloroethene	10	U	10	
Toluene	10	U	10	
trans-1,4-Dichloro-2-butene	20	U	20	
trans-1,2-Dichloroethene	10	U	10	
trans-1,3-Dichloropropene	10	U	10	
1,1,1-Trichloroethane	10	U	10	
1,1,2-Trichloroethane	10	U	10	
Trichloroethene	10	U	10	
Trichlorofluoromethane	10	U	10	
1,2,3-Trichloropropane	10	U	10	
Vinyl acetate	20	U	20	
Vinyl chloride	10	U	10	
Xylenes, Total	20	U	20	
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	101	75 - 120		
Dibromofluoromethane	87	75 - 121		
Toluene-d8 (Surr)	106	75 - 120		

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

TB02-0308

Lab Sample ID:

680-35448-1TB

Client Matrix:

Water

Date Sampled:

03/27/2008 0000

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102438

Result (ug/L)

Instrument ID: Lab File ID:

Qualifier

GC/MS Volatiles - O C2

RL

o2050.d

5030B

Dilution:

Analyte

1.0

Initial Weight/Volume:

5 mL

Date Analyzed:

04/04/2008 1323

Final Weight/Volume:

5 mL

Date Prepared:

04/04/2008 1323

Acetone	25	U *	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
lodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U *	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
TestAmerica Savannah	Page 13 of	155	

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

Client: Solutia Inc.

TB02-0308

Lab Sample ID:

680-35448-1TB

Client Matrix:

Water

Date Sampled:

03/27/2008 0000

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2050.d

Dilution:

1.0

Initial Weight/Volume:

5 mL

Date Analyzed:

04/04/2008 1323

Final Weight/Volume:

5 mL

Date Prepared:

04/04/2008 1323

A	Donald (confl.)	Ovelifies	RL	
Analyte	Result (ug/L)	Qualifier		
Tetrachloroethene	1.0	U	1.0	
Toluene	1.0	U	1.0	
trans-1,4-Dichloro-2-butene	2.0	U	2.0	
trans-1,2-Dichloroethene	1.0	U	1.0	
trans-1,3-Dichloropropene	1.0	U	1.0	
1,1,1-Trichloroethane	1.0	U	1.0	
1,1,2-Trichloroethane	1.0	U	1.0	
Trichloroethene	1.0	U	1.0	
Trichlorofluoromethane	1.0	U	1.0	
1,2,3-Trichloropropane	1.0	U	1.0	
Viny! acetate	2.0	U	2.0	
Vinyl chloride	1.0	U	1.0	
Xylenes, Total	2.0	U	2.0	
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	91	75 - 120		
Dibromofluoromethane	86	75 - 121		
Toluene-d8 (Surr)	101	75 - 120		

\* Do not use this data. Use all other Lata.

# **Analytical Data**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

Result (ug/L)

Instrument ID:

GC/MS Volatiles - O C2 o2060.d

Preparation: Dilution: 5030B 20 Lab File ID:

Qualifier

5 mL

RL

20

Date Analyzed:

Analyte

20 04/04/2008 1547 Initial Weight/Volume: Final Weight/Volume:

5 mL

Date Prepared:

04/04/2008 1547

Analyte	Result (ug/L)	Quamei	<b>~~</b>
Acetone	500	U *	500
Acetonitrile	800	U	800
Acrolein	400	U	400
Acrylonitrile	400	U	400
Benzene		E	20
Bromoform	20	U	20
Bromomethane	20	U	20
Carbon disulfide	40	U	40
Carbon tetrachloride	20	U	20
Chlorobenzene	<del>- 7100 </del>	E	
2-Chloro-1,3-butadiene	20	U	20
Chlorodibromomethane	20	U	20
Chloroethane	20	U	20
Chloroform	20	U	20
Chloromethane	20	U	20
3-Chloro-1-propene	20	U	20
cis-1,3-Dichloropropene	20	U	20
1,2-Dibromo-3-Chloropropane	20	U	20
Dibromomethane	20	U	20
1,2-Dichlorobenzene	20	U	20
1,3-Dichlorobenzene	20	U	20
1,4-Dichlorobenzene	20	U	20
Dichlorobromomethane	20	U	20
Dichlorodifluoromethane	20	U	20
1,1-Dichloroethane	20	U	20
1,2-Dichloroethane	20	U	20
1,1-Dichloroethene	20	U	20
1,2-Dichloropropane	20	U	20
Ethylbenzene	20	U	20
Ethylene Dibromide	20	U	20
Ethyl methacrylate	20	U	20
2-Hexanone	200	U	200
lodomethane	100	U	100
Isobutyl alcohol	800	U	800
Methacrylonitrile	400	U	400
Methylene Chloride	100	U	100
2-Butanone (MEK)	200	U *	200
4-Methyl-2-pentanone (MIBK)	200	U	200
Methyl methacrylate	20	U	20
Pentachloroethane	100	U	100
Propionitrile	400	U	400
Styrene	20	U	20
1,1,1,2-Tetrachloroethane	20	U	20

TestAmerica Savannah

1,1,2,2-Tetrachloroethane

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20

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102438

Instrument ID:

GC/MS Volatiles - O C2

5030B

Dilution:

Lab File ID: Initial Weight/Volume:

o2060.d

75 - 120

75 - 121

75 - 120

20

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d8 (Surr)

04/04/2008 1547

Final Weight/Volume:

5 mL 5 mL

Date Analyzed: Date Prepared:

04/04/2008 1547

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	20	U	20
Toluene	20	U	20
trans-1,4-Dichloro-2-butene	40	U	40
trans-1,2-Dichloroethene	20	U	20
trans-1,3-Dichloropropene	20	U	20
1,1,1-Trichloroethane	20	U	20
1,1,2-Trichloroethane	20	U	20
Trichloroethene	20	U	20
Trichlorofluoromethane	20	U	20
1,2,3-Trichloropropane	20	U	20
Vinyl acetate	40	U	40
Vinyl chloride	20	U	20
Xylenes, Total	40	U	40
Surrogate	%Rec		Acceptance Limits

96

83

103

\* Use this data only. All other data was reported from the 20x diluted analysis.

Analytical Data

Client: Solutia Inc.

Sdg Number: KPM015

Job Number: 680-35403-1

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

o2092.d

Dilution:

Anaivte

100

Initial Weight/Volume:

Qualifier

5 mL

RL

Date Analyzed: Date Prepared:

TestAmerica Savannah

04/07/2008 1738 04/07/2008 1738 Run Type: DL

Result (ug/L)

Final Weight/Volume:

Lab File ID:

5 mL

	Analyte	Result (ug/L)	Quaimer	KL
	Acetone	2500	U *	2500
	Acetonitrile	4000	U	4000
	Acrolein	2000	U	2000
	Acrylonitrile	2000	U	2000
1	Benzene	5500	D	100
	Bromoform	100	U	100
	Bromomethane	100	U	100
	Carbon disulfide	200	U	200
	Carbon tetrachloride	100	U	100
	Chlorobenzene	7900	D	100
	2-Chloro-1,3-butadiene	100	U	100
	Chlorodibromomethane	100	U	100
	Chloroethane	100	U	100
	Chloroform	100	U	100
	Chloromethane	100	U	100
	3-Chloro-1-propene	100	U	100
	cis-1,3-Dichloropropene	100	U	100
	1,2-Dibromo-3-Chloropropane	100	U	100
	Dibromomethane	100	U	100
	1,2-Dichlorobenzene	100	U	100
	1,3-Dichlorobenzene	100	U	100
	1,4-Dichlorobenzene	100	U	100
	Dichlorobromomethane	100	U	100
	Dichlorodifluoromethane	100	U	100
	1,1-Dichloroethane	100	U	100
	1,2-Dichloroethane	100	U	100
	1,1-Dichloroethene	100	U	100
	1,2-Dichloropropane	100	U	100
	Ethylbenzene	100	U	100
	Ethylene Dibromide	100	U	100
	Ethyl methacrylate	100	U	100
	2-Hexanone	1000	U	1000
	Iodomethane	500	U	500
	Isobutyl alcohol	4000	U	4000
	Methacrylonitrile	2000	U	2000
	Methylene Chloride	500	U	500
	2-Butanone (MEK)	1000	U	1000
	4-Methyl-2-pentanone (MIBK)	1000	U	1000
	Methyl methacrylate	100	U	100
	Pentachloroethane	500	U	500
	Propionitrile	2000	U	2000
	Styrene	100	U	100
	1,1,1,2-Tetrachloroethane	100	U	100
	1,1,2,2-Tetrachloroethane	100	U	100

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2092.d

Dilution:

100

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared: 04/07/2008 1738 04/07/2008 1738 Run Type: DL

Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	100	U	100
Toluene	100	U	100
trans-1,4-Dichloro-2-butene	200	U	200
trans-1,2-Dichloroethene	100	U	100
trans-1,3-Dichloropropene	100	U	100
1,1,1-Trichloroethane	100	U	100
1,1,2-Trichloroethane	100	U	100
Trichloroethene	100	U	100
Trichlorofluoromethane	100	U	100
1,2,3-Trichloropropane	100	U	100
Vinyl acetate	200	U	200
Vinyl chloride	100	U	100
Xylenes, Total	200	U	200
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	78		75 - 121
Toluene-d8 (Surr)	102		75 - 120

\* Do not use "E" flagged Lata. Use all other data.

# **Analytical Data**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145.

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102438

Instrument ID:

GC/MS Volatiles - O C2

o2062.d

Dilution:

5030B

Lab File ID:

5 ml

Dilution.

1.0

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

TestAmerica Savannah

04/04/2008 1616 04/04/2008 1616 Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U *	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	81		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	180		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene		<del></del>	1.0
1,3-Dichlorobenzene	55		1.0
1,4-Dichlorobenzene	400	<del>E</del>	<del>- 1.0</del>
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
lodomethane	5.0	Ü	5.0
Isobutyi alcohol	40	Ū	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	Ü	5.0
2-Butanone (MEK)	10	Ü*	10
4-Methyl-2-pentanone (MIBK)	10	Ü	10
Methyl methacrylate	1.0	Ü	1.0
Pentachloroethane	5.0	Ü	5.0
Propionitrile	20	Ü	20
Styrene	1.0	Ü	1.0
1,1,1,2-Tetrachioroethane	1.0	Ü	1.0
1,1,2,2-Tetrachioroethane	1.0	Ü	1.0

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

2.0

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2062.d

Dilution:

1.0

04/04/2008 1616

Date Analyzed: Date Prepared:

Vinyl acetate

04/04/2008 1616

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

RL

2.0

Analyte	
Tetrachloroethene	TOTAL SERVICE (1990) A FORE WASHELL AMONG PROPERTY AND A VIOLENCE OF THE SERVICE OF T

alyte	Result (ug/L)	Qualifier
rachloroethene	1.0	U
uene	1.0	U

Tolu trans-1,4-Dichloro-2-butene 2.0 trans-1,2-Dichloroethene 1.0

trans-1,3-Dichloropropene 1.0 1,1,1-Trichloroethane 1.0 1,1,2-Trichloroethane 1.0

Trichloroethene 1.0 Trichlorofluoromethane 1.0 1,2,3-Trichloropropane 1.0

Vinyl chloride 1.0 Xylenes, Total 2.0 Surrogate %Rec

4-Bromofluorobenzene 90 Dibromofluoromethane 86 Toluene-d8 (Surr) 101

1.0 U 1.0 U 2.0 U 1.0 U 2.0 U 1.0

U

Acceptance Limits 75 - 120 75 - 121 75 - 120

\* Use this Lata only. All other data was reported from the undiluted analysis:

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

Analyte

8260B

Analysis Batch: 680-102552

Result (ug/L)

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

Qualifier

5 mL

RL

Dilution:

10

Run Type: DL Initial Weight/Volume: Final Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

TestAmerica Savannah

04/07/2008 1807 04/07/2008 1807

Allalyte	riosait (agre)	Quanity.	• • • •
Acetone	250	U *	250
Acetonitrile	400	U	400
Acrolein	200	U	200
Acrylonitrile	200	U	200
Benzene	51	D	10
Bromoform	10	U	10
Bromomethane	10	U	10
Carbon disulfide	20	U	20
Carbon tetrachloride	10	U	10
Chlorobenzene	93	D	10
2-Chloro-1,3-butadiene	10	U	10
Chlorodibromomethane	10	U	10
Chloroethane	10	U	10
Chloroform	10	U	10
Chloromethane	10	U	10
3-Chloro-1-propene	10	U	10
cis-1,3-Dichloropropene	10	U	10
1,2-Dibromo-3-Chloropropane	10	U	10
Dibromomethane	10	U	10
1,2-Dichlorobenzene	530	D	
1,3-Dichlorobenzene	27	<u> </u>	10
1,4-Dichlorobenzene	230	D	10
Dichlorobromomethane	10	U	10
Dichlorodifluoromethane	10	U	10
1,1-Dichloroethane	10	U	10
1,2-Dichloroethane	10	U	10
1,1-Dichloroethene	10	U	10
1,2-Dichloropropane	10	U	10
Ethylbenzene	10	U	10
Ethylene Dibromide	10	U	10
Ethyl methacrylate	10	U	10
2-Hexanone	100	U	100
Iodomethane	50	U	50
Isobutyl alcohol	400	U	400
Methacrylonitrile	200	U	200
Methylene Chloride	50	U	50
2-Butanone (MEK)	100	U	100
4-Methyl-2-pentanone (MIBK)	100	U	100
Methyl methacrylate	10	U	10
Pentachloroethane	50	U	50
Propionitrile	200	U	200
Styrene	10	U	10
1,1,1,2-Tetrachloroethane	10	U	10
1,1,2,2-Tetrachloroethane	10	U	10
			/

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2094.d

Initial Weight/Volume:

5 mL

Dilution:

10

04/07/2008 1807

Run Type: DL

Final Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

04/07/2008 1807

Analyte	Result (ug/L)	Qualifier	RL	
Tetrachloroethene	10	U	10	
Toluene	10	U	10	
trans-1,4-Dichloro-2-butene	20	U	20	
trans-1,2-Dichloroethene	10	U	10	
trans-1,3-Dichloropropene	10	U	10	
1,1,1-Trichloroethane	10	U	10	
1,1,2-Trichloroethane	10	U	10	
Trichloroethene	10	U	10	
Trichlorofluoromethane	10	U	10	
1,2,3-Trichloropropane	10	U	10	
Vinyl acetate	20	U	20	
Vinyl chloride	10	U	10	
Xylenes, Total	20	U	20	
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	94	75 - 120		
Dibromofluoromethane	79	75 - 121		
Toluene-d8 (Surr)	102	75 - 120		

\* Do not use 'E' flagged data. Use all other

# **Analytical Data**

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

W PMAMW03\$-0308

Lab Sample ID:

680-35448-6

Client Matrix: Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation:

Dilution:

8260B

Analysis Batch: 680-102438

Instrument ID: Lab File ID:

GC/MS Volatiles - O C2

o2064.d

5030B

20

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared: 04/04/2008 1645 04/04/2008 1645 Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	500	U *	500
Acetonitrile	800	U	800
Acrolein	400	U	400
Acrylonitrile	400	U	400
Benzene	5000	E	
Bromoform	20	U	20
Bromomethane	20	U	20
Carbon disulfide	40	U	40
Carbon tetrachloride	20	U	20
Chlorobenzene	1400		20
2-Chloro-1,3-butadiene	20	U	20
Chlorodibromomethane	20	U	20
Chloroethane	20	U	20
Chloroform	20	U	20
Chloromethane	20	U	20
3-Chloro-1-propene	20	U	20
cis-1,3-Dichloropropene	20	U	20
1,2-Dibromo-3-Chloropropane	20	υ	20
Dibromomethane	20	U	20
1,2-Dichlorobenzene	270		. 20
1,3-Dichlorobenzene	49		20
1,4-Dichlorobenzene	480		20
Dichlorobromomethane	20	U	20
Dichlorodifluoromethane	20	U	20
1,1-Dichloroethane	20	U	20
1,2-Dichloroethane	20	U	20
1,1-Dichloroethene	20	U	20
1,2-Dichloropropane	20	U	20
Ethylbenzene	76		20
Ethylene Dibromide	20	U	20
Ethyl methacrylate	20	U	20
2-Hexanone	200	U	200
Iodomethane	100	U	100
Isobutyl alcohol	800	U	800
Methacrylonitrile	400	U	400
Methylene Chloride	100	U	100
2-Butanone (MEK)	200	U *	200
4-Methyl-2-pentanone (MIBK)	200	U	200
Methyl methacrylate	20	U	20
Pentachloroethane	100	U	100
Propionitrile	400	U	400
Styrene	20	U	20
1,1,1,2-Tetrachloroethane	20	U	20
1,1,2,2-Tetrachloroethane	20	U	20
TestAmerica Savannah	Page 23 of	155	

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03\$-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2064.d

Dilution:

20

Initial Weight/Volume: Final Weight/Volume:

75 - 121

75 - 120

5 mL 5 mL

Date Analyzed:

04/04/2008 1645

Date Prepared:

Dibromofluoromethane

Toluene-d8 (Surr)

04/04/2008 1645

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	20	U	20
Toluene	25		20
trans-1,4-Dichloro-2-butene	40	U	40
trans-1,2-Dichloroethene	20	U	20
trans-1,3-Dichloropropene	20	U	20
1,1,1-Trichloroethane	20	U	20
1,1,2-Trichloroethane	20	· U	20
Trichloroethene	20	U	20
Trichlorofluoromethane	20	U	20
1,2,3-Trichloropropane	20	U	20
Vinyl acetate	40	U	40
Vinyl chloride	20	U	20
Xylenes, Total	210		40
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	95		75 - 120

78

102

\*Use this data only. All other data was reported from
the 20x di'lsted analysis.

Client: Solutio Inc.

Analytic

**Analytical Data** 

Job Number: 680-35403-1

Sdg Number: KPM015

Client: Solutia Inc.

Client Sample ID:

M PMAMW03≸-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102552

Instrument ID:

Qualifier

GC/MS Volatiles - O C2

5030B

Result (ug/L)

Lab File ID:

o2096.d

Dilution:

50

Initial Weight/Volume:

5 mL

Date Analyzed:

04/07/2008 1836

Run Type: DL

Final Weight/Volume:

5 mL

RL

50

Analyte

04/07/2008 1836

Acetone	1200	U *	1200
Acetonitrile	2000	U	2000
Acrolein	1000	U	1000
A <u>crylonitrile</u>	1000	U	1000
Benzene	5400	D	50
Bromoform	50	U	50
Bromomethane	50	U	50
Carbon disulfide	100	U	100
Carbon tetrachloride	50	U	50
Chlorobenzene	1400	D	50
2-Chloro-1,3-butadiene	50	U	50
Chlorodibromomethane	50	U	50
Chloroethane	50	U	50
Chloroform	50	U	50
Chloromethane	50	U	50
3-Chloro-1-propene	50	U	50
cis-1,3-Dichloropropene	50	U	50
1,2-Dibromo-3-Chloropropane	50	U	50
Dibromomethane	50	U	50
1,2-Dichlorobenzene	190	D	50
1,3-Dichlorobenzene	50	U	50
1,4-Dichlorobenzene	470	D	50
Dichlorobromomethane	50	U	50
Dichlorodifluoromethane	50	U	50
1,1-Dichloroethane	50	U	50
1,2-Dichloroethane	50	U	50
1,1-Dichloroethene	50	U	50
1,2-Dichloropropane	50	U	50
Ethylbenzene	86	D	50
Ethylene Dibromide	50	U	50
Ethyl methacrylate	50	U	50
2-Hexanone	500	U	500
lodomethane	250	U	250
Isobutyl alcohol	2000	U	2000
Methacrylonitrile	1000	U	1000
Methylene Chloride	250	U	250
2-Butanone (MEK)	500	U	500
4-Methyl-2-pentanone (MIBK)	500	U	500
Methyl methacrylate	50	U	50
Pentachloroethane	250	U	250
Propionitrile	1000	U	1000
Styrene	50	U	50
1,1,1,2-Tetrachloroethane	50	U	50
			ra /

50

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1,1,2,2-Tetrachloroethane

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

.^^ PMAMW03≸-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

5030B

Lab File ID:

o2096.d

75 - 120

Dilution: Date Analyzed: 50

Run Type: DL

Initial Weight/Volume:

5 mL

Date Prepared:

Toluene-d8 (Surr)

04/07/2008 1836 04/07/2008 1836 Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	₹L
Tetrachloroethene	50	U	50
Toluene	50	U	50
trans-1,4-Dichloro-2-butene	100	U	100
trans-1,2-Dichloroethene	50	U	50
trans-1,3-Dichloropropene	50	U	50
1,1,1-Trichloroethane	50	U	50
1,1,2-Trichloroethane	50	U	50
Trichloroethene	50	U	50
Trichlorofluoromethane	50	U	50
1,2,3-Trichloropropane	50	U	50
Vinyl acetate	100	U	100
Vinyl chloride	50	U	50
Xylenes, Total	230	Đ	100
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	94		75 - 120
Dibromofluoromethane	77		75 - 121

105

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

S PMAMW03**M**-0308 Client Sample ID:

03/27/2008 1430 Date Sampled: Lab Sample ID: 680-35448-8 Date Received: 03/28/2008 1145 Client Matrix: Water

### 8260B Volatile Organic Compounds by GC/MS

8260B Method: Preparation: 5030B

Dilution:

Date Analyzed: Date Prepared:

TestAmerica Savannah

1.0

04/07/2008 2100 04/07/2008 2100 Analysis Batch: 680-102552

GC/MS Volatiles - O C2 Instrument ID:

Lab File ID: o2106.d

Initial Weight/Volume:

5 mL

Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	U *	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	ND 0.0-252-	—"ŭ"	1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	ND 0.0 2.79	U	1.0
Chlorobenzene	ND 0.0 2.7	"u"	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

5 PMAMW03**M**-0308

Lab Sample ID:

680-35448-8

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

Date Prepared:

Toluene-d8 (Surr)

5030B

Lab File ID:

o2106.d

75 - 120

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Date Analyzed:

04/07/2008 2100

04/07/2008 2100

Analyto	Booult (uz/l)	Qualifica	DI
Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	93	e profesional de la companya del la companya de la	75 - 120
Dibromofluoromethane	83		75 - 121

100

\* Do not use 'E' flagged data. Use all other duta

# **Analytical Data**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

Instrument ID:

GC/MS Volatiles - O C2

Preparation: 5030B

Dilution: 20

TestAmerica Savannah

Lab File ID: 02
Initial Weight/Volume:

o2068.d

Date Analyzed: Date Prepared: 04/04/2008 1743 04/04/2008 1743 Final Weight/Volume:

5 mL 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	500	U *	500
Acetonitrile	800	U	800
Acrolein	400	U	400
- Acrylonitrile	400	U	400
-Benzene	4700	E	20
Bromoform	20	U	20
Bromomethane	20	U	20
Carbon disulfide	40	U	40
Carbon tetrachloride	20	U	20
Chlorobenzene	1300		20
2-Chloro-1,3-butadiene	20	U	20
Chlorodibromomethane	20	U	20
Chloroethane	20	U	20
Chloroform	20	U	20
Chloromethane	20	U	20
3-Chloro-1-propene	20	U	20
cis-1,3-Dichloropropene	20	U	20
1,2-Dibromo-3-Chloropropane	20	U	20
Dibromomethane	20	U	20
1,2-Dichlorobenzene	180		20
1,3-Dichlorobenzene	44		20
1,4-Dichlorobenzene	460		20
Dichlorobromomethane	20	U	20
Dichlorodifluoromethane	20	U	20
1,1-Dichloroethane	20	U	20
1,2-Dichloroethane	20	U	20
1,1-Dichloroethene	20	U	20
1,2-Dichloropropane	20	U	20
Ethylbenzene	80		20
Ethylene Dibromide	20	U	20
Ethyl methacrylate	20	U	20
2-Hexanone	200	U	200
Iodomethane	100	U	100
Isobutyl alcohol	800	U	800
Methacrylonitrile	400	U	400
Methylene Chloride	100	U	100
2-Butanone (MEK)	200	U *	200
4-Methyl-2-pentanone (MIBK)	200	U	200
Methyl methacrylate	20	U	20
Pentachloroethane	100	U	100
Propionitrile	400	U	400
Styrene	20	U	20
1,1,1,2-Tetrachloroethane	20	U	20
1,1,2,2-Tetrachloroethane	20	U	20

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID: PMAMW03M-0308-AD

Lab Sample ID: 680-35448-10FD Date Sampled: 03/27/2008 1430 Client Matrix: Date Received: 03/28/2008 1145 Water

### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 680-102438 instrument ID: GC/MS Volatiles - O C2

Preparation: 5030B Lab File ID: o2068.d

Dilution: 20 Initial Weight/Volume:

5 mL 04/04/2008 1743 Final Weight/Volume: 5 mL Date Analyzed:

Date Prepared: 04/04/2008 1743

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	20	U	20
Toluene	23		20
trans-1,4-Dichloro-2-butene	40	U	40
trans-1,2-Dichloroethene	20	U	20
trans-1,3-Dichloropropene	20	U	20
1,1,1-Trichloroethane	20	U	20
1,1,2-Trichloroethane	20	U	20
Trichloroethene	20	U	20
Trichlorofluoromethane	20	U	20
1,2,3-Trichloropropane	20	U	20
Vinyl acetate	40	U	40
Vinyl chloride	20	U	20
Xylenes, Total	210		40
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	95	100 CO	75 - 120
Dibromofluoromethane	81		75 - 121
Toluene-d8 (Surr)	104		75 - 120

X Use this data only. All other data was reported from the 20x dilded analysis.

Client: Solutia Inc.

Analytical Data

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102552

Instrument ID:

GC/MS Volatiles - O C2

5030B

Lab File ID: o2098.d Initial Weight/Volume:

5 mL

Preparation: Dilution:

50

04/07/2008 1905

Run Type: DL

Final Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

04/07/2008 1905

Analyte	Result (ug/L)	Qualifier	RL
Acetone	1200	U *	1200
Acetonitrile	2000	U	2000
Acrolein	1000	U	1000
Acrylonitrile	1000	U	1000
Benzene	5000	D	50
Bromoform	50	U	50
Bromomethane	50	U	50
Carbon disulfide	100	U	100
Carbon tetrachloride	50	U	50
Chlorobenzene	1400	D	50
2-Chloro-1,3-butadiene	50	U	50
Chlorodibromomethane	. 50	U	50
Chloroethane	50	U	50
Chloroform	50	U	50
Chloromethane	50	U	50
3-Chloro-1-propene	50	U	50
cis-1,3-Dichloropropene	50	U	50
1,2-Dibromo-3-Chloropropane	50	U	50
Dibromomethane	50	U	50
1,2-Dichlorobenzene	190	D	50
1,3-Dichlorobenzene	50	U	50
1,4-Dichlorobenzene	490	D	50
Dichlorobromomethane	50	U	50
Dichlorodifluoromethane	50	U	50
1,1-Dichloroethane	50	U	50
1,2-Dichloroethane	50	U	50
1,1-Dichloroethene	50	U	50
1,2-Dichloropropane	50	U	50
Ethylbenzene	86	D	50
Ethylene Dibromide	50	U	50
Ethyl methacrylate	50	U	50
2-Hexanone	500	U	500
Iodomethane	250	U	250
Isobutyl alcohol	2000	U	2000
Methacrylonitrile	1000	U	1000
Methylene Chloride	250	U	250
2-Butanone (MEK)	500	U	500
4-Methyl-2-pentanone (MiBK)	500	U	500
Methyl methacrylate	50	U	50
Pentachloroethane	250	U	250
Propionitrile	1000	U	1000
Styrene	50	U	50
1,1,1,2-Tetrachloroethane	50	Ü	50
1,1,2,2-Tetrachloroethane	50	Ü	50
.,.,===		•	

TestAmerica Savannah

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID: PMAMW03M-0308-AD

Lab Sample ID: 680-35448-10FD Date Sampled: 03/27/2008 1430 03/28/2008 1145 Client Matrix: Water Date Received:

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Preparation:

5030B

Dilution:

Date Analyzed: Date Prepared:

Dibromofluoromethane

Toluene-d8 (Surr)

50

04/07/2008 1905 04/07/2008 1905 Analysis Batch: 680-102552

Run Type: DL

Instrument ID: Lab File ID:

GC/MS Volatiles - O C2 o2098.d

75 - 121 75 - 120

Initial Weight/Volume:

Final Weight/Volume:

5 mL 5 mL

	<b>5</b> "/ ")	0 . 15	<b>5</b> .
Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	50	U	50
Toluene	50	U	50
trans-1,4-Dichloro-2-butene	100	U	100
trans-1,2-Dichloroethene	50	U	50
trans-1,3-Dichloropropene	50	U	50
1,1,1-Trichloroethane	50	U	50
1,1,2-Trichloroethane	50	U	50
Trichloroethene	50	U	50
Trichlorofluoromethane	50	U	50
1,2,3-Trichloropropane	50	U	50
Vinyl acetate	100	U	100
Vinyl chloride	50	U	50
Xylenes, Total	230	D	100
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzerie	95	out man comment man comment and a stade reference of the stade and the stade of the	75 - 120

78

102

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

PMAMW02S-0308-EB Client Sample ID:

03/27/2008 1430 Date Sampled: 680-35448-12EB Lab Sample ID: 03/28/2008 1145 Date Received: Client Matrix: Water

#### 8260B Volatile Organic Compounds by GC/MS

Method: 8260B Preparation: 5030B

1.0

Dilution:

TestAmerica Savannah

04/04/2008 1352 Date Analyzed: 04/04/2008 1352 Date Prepared:

Analysis Batch: 680-102438 Instrument ID: GC/MS Volatiles - O C2

o2052.d Lab File ID:

Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	RL
Acetone	25	<b>U</b> *	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20_	U	20
Benzene	(8.7)		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U	2.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	(17)		1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
1,2-Dichlorobenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,4-Dichlorobenzene	1.0		1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
Iodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U *	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
. 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308-EB

Lab Sample ID:

680-35448-12EB

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-102438

Instrument ID: Lab File ID:

GC/MS Volatiles - O C2

Preparation: 5030B

Dilution:

1.0

Initial Weight/Volume:

o2052.d 5 mL

Date Analyzed:

04/04/2008 1352

Final Weight/Volume:

75 - 120

5 mL

Date Prepared:

Toluene-d8 (Surr)

04/04/2008 1352

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
rans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
/inyl acetate	2.0	υ	2.0
/inyl chloride	1.0	U	1.0
Kylenes, Total	2.0	U	2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	91	91 75 - 120	
Dibromofluoromethane	90 75 - 121		75 - 121

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\* Do not use 'E" flagged datas Use all other data.

### **Analytical Data**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

#### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-103044

Instrument ID: Lab File ID:

GC/MS Volatiles - O C2

RL

o2148.d

5030B

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Dilution:

Analyte

1.0

Date Analyzed:

04/14/2008 1427

Date Prepared:

04/14/2008 1427

Result (ug/L)	Qualifier	

Analyte	rtesuit (ug/L)	Qualifici	1\_
Acetone	25	U	25
Acetonitrile	40	U	40
Acrolein	20	U	20
Acrylonitrile	20	U	20
Benzene	40		1.0
Bromoform	1.0	U	1.0
Bromomethane	1.0	U	1.0
Carbon disulfide	2.0	U *	2.0
Carbon tetrachloride	1.0	U	1.0
- Chlorobenzene	480	E	1.0
2-Chloro-1,3-butadiene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.1		1.0
3-Chloro-1-propene	1.0	U	1.0
cis-1,3-Dichloropropene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	1.0
Dibromomethane	1.0	U	1.0
— 1;2-Dichlorobenzene	320		1.0
1,3-Dichlorobenzene	590	<del></del>	1.0
-1,4-Dichlorobenzene	1800	<del></del> E	
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
Ethylbenzene	13		1.0
Ethylene Dibromide	1.0	U	1.0
Ethyl methacrylate	1.0	U	1.0
2-Hexanone	10	U	10
lodomethane	5.0	U	5.0
Isobutyl alcohol	40	U	40
Methacrylonitrile	20	U	20
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl methacrylate	1.0	U	1.0
Pentachloroethane	5.0	U	5.0
Propionitrile	20	U	20
Styrene	1.0	U	1.0
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

### 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B

Analysis Batch: 680-103044

Instrument ID:

GC/MS Volatiles - O C2

5030B

Lab File ID:

o2148.d

75 - 120

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Date Analyzed: Date Prepared:

Toluene-d8 (Surr)

04/14/2008 1427

04/14/2008 1427

			<b></b>
Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	111		75 - 120
Dibromofluoromethane	91		75 - 121

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\* Use this data only. All other data was reported from the Und: littled analysis.

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

#### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-103044

DL

Result (ua/L)

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

Qualifier

o2152.d

RL

Dilution: Date Analyzed: 20 04/14/2008 1525

Run Type:

Initial Weight/Volume: Final Weight/Volume:

5 mL 5 mL

Date Prepared:

Analyte

04/14/2008 1525

	Analyte	Result (ug/L)	Qualifier	RL
	Acetone	500	U	500
	Acetonitrile	800	U	800
	Acrolein	400	U	400
	Acrylonitrile	400	U	400
	Benzene	40	D	20
	Bromoform	20	U	20
	Bromomethane	20	U	20
	Carbon disulfide	40	U *	40
	Carbon tetrachloride	20	<u>U</u>	20
€	Chlorobenzene	530	D	20
•	2-Chloro-1,3-butadiene	20	Ū	20
	Chlorodibromomethane	20	U	20
	Chloroethane	20	U	20
	Chloroform	20	U	20
	Chloromethane	20	U	20
	3-Chloro-1-propene	20	U	20
	cis-1,3-Dichloropropene	20	U	20
	1,2-Dibromo-3-Chloropropane	20	U	20
	Dibromomethane	20	U	20
/	1,2-Dichlorobenzene	330	D	20
	1,3-Dichlorobenzene	670	D	20
_	1,4-Dichlorobenzene	2900	D	20
	Dichlorobromomethane	20	U	20
	Dichlorodifluoromethane	20	U	20
	1,1-Dichloroethane	20	U	20
	1,2-Dichloroethane	20	U	20
	1,1-Dichloroethene	20	U	20
	1,2-Dichloropropane	20	U	20
	Ethylbenzene	20	U	20
	Ethylene Dibromide	20	U	20
	Ethyl methacrylate	20	U	20
	2-Hexanone	200	U	200
	Iodomethane	100	U	100
	Isobutyl alcohol	800	U	800
	Methacrylonitrile	400	U	400
	Methylene Chloride	100	U	100
	2-Butanone (MEK)	200	U	200
	4-Methyl-2-pentanone (MIBK)	200	U	200
	Methyl methacrylate	20	U	20
	Pentachloroethane	100	U	100
	Propionitrile	400	Ü	400
	Styrene	20	Ü	20
	1,1,1,2-Tetrachloroethane	20	Ü	20
	1,1,2,2-Tetrachloroethane	20	Ü	20
	1, 1, 2, 2-1 Ett actitor detriane	20	Ü	20/
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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-103044

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2152.d

Dilution:

20

04/14/2008 1525

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

04/14/2008 1525

Run Type: DL

Final Weight/Volume:

5 mL

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	20	U	20
Toluene	20	U	20
trans-1,4-Dichloro-2-butene	40	U	40
trans-1,2-Dichloroethene	20	U	20
trans-1,3-Dichloropropene	20	U	20
1,1,1-Trichloroethane	20	U	20
1,1,2-Trichloroethane	20	U	20
Trichloroethene	20	U	20
Trichlorofluoromethane	20	U	20
1,2,3-Trichloropropane	20	U	20
Vinyl acetate	40	U	40
Vinyl chloride	20	U	20
Xylenes, Total	40	U	40
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	107	AND ALEXANDER OF THE CONTRACT	75 - 120
Dibromofluoromethane	97		75 - 121
Toluene-d8 (Surr)	104		75 - 120

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

TB03-0308

Lab Sample ID:

680-35499-2TB

Client Matrix:

Water

Date Sampled:

03/31/2008 0000

Date Received:

04/01/2008 1138

# 8260B Volatile Organic Compounds by GC/MS

Method: Preparation: 8260B 5030B Analysis Batch: 680-103045

Instrument ID: Lab File ID:

GC/MS Volatiles - O C2 o2138.d

Dilution:

Initial Weight/Volume:

5 mL

Date Analyzed:

1.0

04/09/2008 1553

Date Prepared:

04/09/2008 1553

Final Weight/Volume:	5	mL
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Acetonitrile	Analyte	Result (ug/L)	Qualifier	RL
Acetolaritile	A 2 YOUR STREET, THE PROPERTY OF THE PROPERTY	25	U	
Recycloritrie 20 U 20 Benzene 1.0 U 1.0 Benzene 1.0 U 1.0 Benzene 1.0 U 1.0 Bromoform 1.0 U 1.0 Bromomethane 1.0 U 1.0 Carbon disulfide 2.0 U 2.0 Carbon tetrachloride 1.0 U 1.0 Chlorobenzene 1.0 U 1.0 Chlorobenzene 1.0 U 1.0 Chlorodisromomethane 1.0 U 1.0 Chlorodisromomethane 1.0 U 1.0 Chlorodisromomethane 1.0 U 1.0 Chlorodisromomethane 1.0 U 1.0 Chlorodrom 1.0 U 1.0 Chlorodrom 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromomethane 1.0 U 1.0 Chlorodiscomomethane 1.0 U 1.0 Chlorodifusomomethane 1.		40	U	40
Acylonitirie 20 U 20 Benzene 1.0 U 1.0 Benzenee 1.0 U 1.0 Benzenee 1.0 U 1.0 Bromoform 1.0 U 1.0 Bromomethane 1.0 U 1.0 Carbon disulfide 2.0 U 2.0 Carbon tetrachloride 1.0 U 1.0 Carbon tetrachloride 1.0 U 1.0 Carbon tetrachloride 1.0 U 1.0 Chlorobenzene 1.0 U 1.0 Chlorobenzene 1.0 U 1.0 Chlorobenzene 1.0 U 1.0 Chloroform 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 S-Chloro-1-propene 1.0 U 1.0 S-Chloro-2-Chloropropene 1.0 U 1.0 S-Chloro-2-Chloropropene 1.0 U 1.0 S-Chloromethane 1.0 U 1.0 S-Chloropropene 1.0 U 1.0 S-Ch	Acrolein	20	U	20
Berzene		20	U	20
Bromoform	-	1.0	U	1.0
Bromethane		1.0	U	1.0
Carbon disulfide		1.0	U	1.0
Carbon tetrachloride		2.0	U	2.0
Chlorobenzene		1.0	U	1.0
2-Chloro-1,3-butadiene		1.0	U	1.0
Chlorodibromomethane 1.0 U 1.0 Chloroethane 1.0 U 1.0 Chloroethane 1.0 U 1.0 Chloroform 1.0 U 1.0 Chloroform 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloropropene 1.0 U 1.0 Chlorobethane 1.0 U 1.0 Chlorodifluoromethane 1.0 U 1.0 Chloropropane 1.0 U 1.0 Chlorop		1.0	U	1.0
Chloroethane		1.0	U	1.0
Chloroform  1.0 U 1.0 Chloromethane 1.0 U 1.0 Chloromethane 1.0 U 1.0 cis-1,3-Dichloropropene 1.0 U 1.0 cis-1,3-Dichloropropene 1.0 U 1.0 L2-Dibromo-3-Chloropropane 1.0 U 1.0 Dibromomethane 1.0 U 1.0 L1,2-Dichlorobenzene 1.0 U 1.0 L3-Dichlorobenzene 1.0 U 1.0 L3-Dichlorobenzene 1.0 U 1.0 L4-Dichlorobenzene 1.0 U 1.0 Dichlorofomomethane 1.0 U 1.0 Dichlorodifluoromethane 1.0 U 1.0 Dichlorodifluoromethane 1.0 U 1.0 Dichlorodifluoromethane 1.0 U 1.0 L1,2-Dichlorotethane 1.0 U 1.0 L2-Dichlorotethane 1.0 U 1.0 L3-Dichlorotethane 1			U	1.0
Chloromethane			U	1.0
1.0		1.0	U	1.0
cis-1,3-Dichloropropene         1.0         U         1.0           1,2-Dibromo-3-Chloropropane         1.0         U         1.0           Dibromomethane         1.0         U         1.0           1,2-Dichlorobenzene         1.0         U         1.0           1,3-Dichlorobenzene         1.0         U         1.0           1,4-Dichlorobenzene         1.0         U         1.0           Dichlorobromomethane         1.0         U         1.0           Dichlorobromomethane         1.0         U         1.0           1,1-Dichloroethane         1.0         U         1.0           1,2-Dichloroethane         1.0         U         1.0           1,1-Dichloroethane         1.0         U         1.0           1,2-Dichloropropane         1.0         U         1.0           Ethylenzene         1.0         U         1.0           Ethylenzene         1.0         U         1.0           Ethylenzene Dibromide         1.0         U         1.0           Ethylene Dibromide         1.0         U         1.0           Ethylenzene         1.0         U         1.0           Ethylenzene         0         U </td <td></td> <td>1.0</td> <td>U</td> <td>1.0</td>		1.0	U	1.0
1,2-Dibromo-3-Chloropropane       1,0       U       1,0         Dibromomethane       1,0       U       1,0         1,2-Dichlorobenzene       1,0       U       1,0         1,3-Dichlorobenzene       1,0       U       1,0         1,4-Dichlorobenzene       1,0       U       1,0         Dichlorobromomethane       1,0       U       1,0         Dichlorodifluoromethane       1,0       U       1,0         1,1-Dichloroethane       1,0       U       1,0         1,1-Dichloroethane       1,0       U       1,0         1,2-Dichloroethane       1,0       U       1,0         1,2-Dichloropropane       1,0       U       1,0         Ethylenzene       1,0       U       1,0         Ethylene Dibromide       1,0       U       1,0         Ethylene Chloride       5,0       U	• •		U	1.0
Dibromomethane		· 1.0	U	1.0
1,2-Dichlorobenzene       1.0       U       1.0         1,3-Dichlorobenzene       1.0       U       1.0         1,4-Dichlorobenzene       1.0       U       1.0         Dichlorobromomethane       1.0       U       1.0         Dichlorodifluoromethane       1.0       U       1.0         1,1-Dichloroethane       1.0       U       1.0         1,2-Dichloroethane       1.0       U       1.0         1,2-Dichloropthane       1.0       U       1.0         1,2-Dichloropthane       1.0       U       1.0         1,2-Dichloroptopane       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       1.0         Isobutyl alcohol       40       U       40         Methacryloitrile       20       U       20         Methyl-2-pentanone (MEK)       10       U       1.0         2-Butanone (MEK)       10       U       1.0         4-Methyl-2-pentanone (MIBK)       10       U       <		1.0	U	1.0
1,3-Dichlorobenzene       1.0       U       1.0         1,4-Dichlorobenzene       1.0       U       1.0         Dichlorobrommethane       1.0       U       1.0         Dichlorodifluoromethane       1.0       U       1.0         1,1-Dichloroethane       1.0       U       1.0         1,2-Dichloroethane       1.0       U       1.0         1,1-Dichloroethane       1.0       U       1.0         1,1-Dichloropropane       1.0       U       1.0         Ethylbenzene       1.0       U       1.0         Ethylbenzene       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       10         Isobutyl alcohol       40       U       40         Methylene Chloride       5.0       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MEK)       10       U       10         4-Methyl-2-pentanone (MEK)       1.0       U       1.0		1.0	U	1.0
1,4-Dichlorobenzene       1.0       U       1.0         Dichlorobromomethane       1.0       U       1.0         Dichlorodifluoromethane       1.0       U       1.0         1,1-Dichloroethane       1.0       U       1.0         1,2-Dichloroethane       1.0       U       1.0         1,2-Dichloropropane       1.0       U       1.0         Ethylenzene       1.0       U       1.0         Ethylene Dibromide       5.0       U       2.0         Book States Instance       5.0       U       <	•		U	1.0
Dichlorobromomethane         1.0         U         1.0           Dichlorodifluoromethane         1.0         U         1.0           1,1-Dichloroethane         1.0         U         1.0           1,2-Dichloroethane         1.0         U         1.0           1,1-Dichloroethene         1.0         U         1.0           1,2-Dichloropropane         1.0         U         1.0           Ethylenzene         1.0         U         1.0           Ethylene Dibromide         1.0         U         1.0           2-Hexanone         10         U         1.0           Iodomethane         5.0         U         5.0           Isobutyl alcohol         40         U         40           Methacrylonitrile         20         U         20           Methylene Chloride         5.0         U         5.0           2-Butanone (MEK)         10         U			U	1.0
Dichlorodiffluoromethane		1.0	U	1.0
1,1-Dichloroethane       1.0       U       1.0         1,2-Dichloroethane       1.0       U       1.0         1,1-Dichloroethene       1.0       U       1.0         1,2-Dichloropropane       1.0       U       1.0         Ethylichorene       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       10         Iodomethane       5.0       U       5.0         Isobutyl alcohol       40       U       40         Methacrylonitrile       20       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0 <td< td=""><td></td><td>1.0</td><td>U</td><td>1.0</td></td<>		1.0	U	1.0
1,2-Dichloroethane       1.0       U       1.0         1,1-Dichloroethene       1.0       U       1.0         1,2-Dichloropropane       1.0       U       1.0         Ethylbenzene       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       10         Isobutyl alcohol       40       U       40         Methylene Chloride       5.0       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0			U	1.0
1,1-Dichloroethene       1.0       U       1.0         1,2-Dichloropropane       1.0       U       1.0         Ethylbenzene       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       10         lodomethane       5.0       U       5.0         Isobutyl alcohol       40       U       40         Methacrylonitrile       20       U       20         Methylene Chloride       5.0       U       20         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       20         Styrene       1.0       U       1.0         1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2-Tetrachloroethane       1.0       U       1.0			U	1.0
1,2-Dichloropropane       1.0       U       1.0         Ethylbenzene       1.0       U       1.0         Ethylene Dibromide       1.0       U       1.0         Ethyl methacrylate       1.0       U       1.0         2-Hexanone       10       U       10         Iodomethane       5.0       U       5.0         Isobutyl alcohol       40       U       40         Methacrylonitrile       20       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2-Tetrachloroethane       1.0       U       1.0		1.0	U	1.0
Ethylbenzene 1.0 U 1.0 Ethylene Dibromide 1.0 U 1.0 Ethyl methacrylate 1.0 U 1.0 Ethyl methacrylate 1.0 U 1.0 Ethyl methacrylate 1.0 U 1.0 I I			U	1.0
Ethylene Dibromide		1.0	U	1.0
Ethyl methacrylate 1.0 U 1.0 2-Hexanone 10 U 10 Iodomethane 5.0 U 5.0 Isobutyl alcohol 40 U 40 Methacrylonitrile 20 U 20 Methylene Chloride 5.0 U 5.0 2-Butanone (MEK) 10 U 10 4-Methyl-2-pentanone (MIBK) 10 U 10 Methyl methacrylate 1.0 U 1.0 Pentachloroethane 5.0 U 5.0 Propionitrile 20 U 5.0 U 5.0 Iodomethylene Chloride 1.0 U 1.0 Iodomethyl methacrylate 1.0 Iodomethyl methacry			U	1.0
2-Hexanone 10 U 10 10 10 10 10 10 10 10 10 10 10 10 10		1.0	U	1.0
South   Sout	-		U	10
Isobutyl alcohol       40       U       40         Methacrylonitrile       20       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       5.0         Styrene       1.0       U       1.0         1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0			U	5.0
Methacrylonitrile       20       U       20         Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0		40	U	40
Methylene Chloride       5.0       U       5.0         2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0		20	U	20
2-Butanone (MEK)       10       U       10         4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0				5.0
4-Methyl-2-pentanone (MIBK)       10       U       10         Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0				10
Methyl methacrylate       1.0       U       1.0         Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0				10
Pentachloroethane       5.0       U       5.0         Propionitrile       20       U       20         Styrene       1.0       U       1.0         1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0			U	1.0
Propionitrile         20         U         20           Styrene         1.0         U         1.0           1,1,1,2-Tetrachloroethane         1.0         U         1.0           1,1,2,2-Tetrachloroethane         1.0         U         1.0				
Styrene         1.0         U         1.0           1,1,1,2-Tetrachloroethane         1.0         U         1.0           1,1,2,2-Tetrachloroethane         1.0         U         1.0				
1,1,1,2-Tetrachloroethane       1.0       U       1.0         1,1,2,2-Tetrachloroethane       1.0       U       1.0			U	1.0
1,1,2,2-Tetrachloroethane 1.0 U 1.0				
TestAmerica Savennah Page 39 of 155				
	T-44io Commont	Page 39 of	1.55	

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

TB03-0308

Lab Sample ID:

680-35499-2TB

Client Matrix:

Water

Date Sampled:

03/31/2008 0000

Date Received:

04/01/2008 1138

### 8260B Volatile Organic Compounds by GC/MS

Method:

8260B

Analysis Batch: 680-103045

Instrument ID:

GC/MS Volatiles - O C2

Preparation:

5030B

Lab File ID:

o2138.d

75 - 121 75 - 120

5 mL

Dilution:

1.0

Initial Weight/Volume:

5 mL

Date Analyzed: Date Prepared:

Dibromofluoromethane

Toluene-d8 (Surr)

04/09/2008 1553 04/09/2008 1553 Final Weight/Volume:

Analyte	Result (ug/L)	Qualifier	RL
Tetrachloroethene	1.0	U	1.0
Toluene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U	2.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2-Trichloroethane	1.0	U	1.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
Vinyl acetate	2.0	U	2.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	96		75 - 120

85

103

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID:

680-35403-2

Client Matrix:

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

680 Polychlorinated Biphenyls by GCMS

Method: Preparation:

680 680

Analysis Batch: 680-103967

Instrument ID: Lab File ID:

No Equipment Assigned to

Dilution:

Prep Batch: 680-101983

1.0

Initial Weight/Volume:

1060 mL 1 mL

Date Analyzed: Date Prepared: 04/22/2008 1551 04/02/2008 1350 Final Weight/Volume: Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	68		25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-F-0308

Lab Sample ID:

680-35403-3

Client Matrix:

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

#### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103967

Prep Batch: 680-101983

Instrument ID: Lab File ID: No Equipment Assigned to

Dilution: 1.0

Date Analyzed: Date Prepared: 04/22/2008 1637 04/02/2008 1350 Initial Weight/Volume:

1060 mL

Final Weight/Volume:

1 mL

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	Ū	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	64	er <del>anne de la colonia de la colonia</del>	25 - 113

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW01M-0308

Lab Sample ID:

680-35403-4

Client Matrix:

Water

Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103967

Instrument ID:

No Equipment Assigned to

Prep Batch: 680-101983

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

1030 mL 1 mL

Date Analyzed: Date Prepared: 04/22/2008 1723 04/02/2008 1350

Final Weight/Volume: Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.097	U	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorohiphonyl 13C12	37	A THE CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY A	25 _ 113

Client: Solutia Inc.

Job Number: 680-35403-1 Sdg Number: KPM015

Client Sample ID:

PMAMW01M-F-0308

Lab Sample ID:

680-35403-5

Client Matrix:

Water

Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

#### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680

Analysis Batch: 680-104016

Instrument ID:

No Equipment Assigned to

680

Lab File ID:

Dilution:

1.0

Prep Batch: 680-101983

Initial Weight/Volume:

1030 mL 1 mL

Date Analyzed: Date Prepared: 04/11/2008 0034 04/02/2008 1350

Final Weight/Volume: Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.097	U	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	43	2013 (1918 1901) 11 10 10 1910 10 1911 10 10 10 10 10 10 10 10 10 10 10 10 1	25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 680 Polychlorinated Biphenyls by GCMS

Method:

680

Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Preparation:

680

Prep Batch: 680-101984

Lab File ID: N

1030 mL

Dilution:

1.0

Trop Buton. 000 To To

Initial Weight/Volume: Final Weight/Volume:

1 mL

Date Analyzed: Date Prepared: 04/07/2008 1847 04/02/2008 1350

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.7		0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	81		25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-F-0308

Lab Sample ID:

680-35448-3

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation:

Date Analyzed:

Date Prepared:

680 680 Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Dilution:

Prep Batch: 680-101984

Lab File ID:

1.0

Initial Weight/Volume: Final Weight/Volume:

1030 mL 1 mL

04/07/2008 1936 04/02/2008 1350

Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.7	erranno, men men yang gerina samakan 1996 berdiriran dalam di 1996 kepada di Angelekan Sigui, anua, men	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorohinhenyl-13C12	78		25 _ 113

Decachlorobiphenyl-13C12

25 - 113

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID: Client Matrix:

680-35448-4

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680

Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Dilution:

680

Prep Batch: 680-101984

Lab File ID:

Date Analyzed:

1.0 04/07/2008 2025

Initial Weight/Volume: Final Weight/Volume:

1060 mL 1 mL

Date Prepared:

04/02/2008 1350

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.18	n, managen, pain, a voir de la managen au managen au partie de la	0.094
Dichlorobiphenyl	0.10		0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	82	**************************************	25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-F-0308

Lab Sample ID:

680-35448-5

Client Matrix: Water Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

# 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103937 Prep Batch: 680-101984

Instrument ID: Lab File ID:

No Equipment Assigned to

Dilution: 1.0

Initial Weight/Volume:

1060 mL

Date Analyzed: Date Prepared: 04/07/2008 2114 04/02/2008 1350

Final Weight/Volume:

1 mL

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	91	- Monte company and the Company of the Company and the Company of	25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

M PMAMW03\$-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

# 680 Polychlorinated Biphenyls by GCMS

Method:

680

Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Preparation:

680

Prep Batch: 680-101984

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

1060 mL 1 mL

Date Analyzed: Date Prepared: 04/07/2008 2202 04/02/2008 1350

Final Weight/Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.39	e i i i i i i i i i i i i i i i i i i i	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	56	erono intere colonia altrito (inc. allocare colonia callidatore depublica e colonia e	25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

*M* PMAMW03**\$**-F-0308

Lab Sample ID:

680-35448-7

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Dilution:

1.0

Prep Batch: 680-101984

Lab File ID:

Date Analyzed: Date Prepared:

04/07/2008 2251 04/02/2008 1350 Initial Weight/Volume: Final Weight/Volume:

1060 mL 1 mL

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	68		25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

S PMAMW03**M**-0308

Lab Sample ID:

680-35448-8

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

680 Polychlorinated Biphenyls by GCMS

Preparation:

Method:

680 680 Analysis Batch: 680-103937

Instrument ID:

No Equipment Assigned to

Prep Batch: 680-101984

Lab File ID:

Dilution:

1.0

Initial Weight/Volume:

1030 mL 1 mL

Date Analyzed: Date Prepared: 04/07/2008 2340 04/02/2008 1350

Final Weight/Volume: Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.25	-andersorbalitats i (februs), (februs), inc. mår til eller hande av markerna ernen, ernen somet in i templome en re	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorohinhenyl-13C12	8.4		25 _ 113

Decachlorobiphenyl-13C12

25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

5 PMAMW03**M**-F-0308

Lab Sample ID:

680-35448-9

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103941

Instrument ID:

No Equipment Assigned to

Lab File ID:

Dilution:

1.0

Prep Batch: 680-101984

Initial Weight/Volume:

1030 mL

Date Analyzed: Date Prepared: 04/22/2008 1200

Final Weight/Volume:

1 mL

04/02/2008 1350

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.31	A SALE MANUAL AND WOODEN MA AND AND AND AND AND AND AND AND AND AN	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	70	######################################	25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Date Sampled:

03/27/2008 1430

Client Matrix:

Water

Date Received:

03/28/2008 1145

680 Polychlorinated Biphenyls by GCMS

Method: Preparation: 680 680 Analysis Batch: 680-103941

Instrument ID: Lab File ID:

No Equipment Assigned to

Dilution:

Date Analyzed:

1.0

Prep Batch: 680-101984

Initial Weight/Volume:

1060 mL 1 mL

04/22/2008 1246 04/02/2008 1350 Date Prepared:

Final Weight/Volume:

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	46	THE PROPERTY OF THE PROPERTY O	25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-F-0308-AD

Lab Sample ID:

680-35448-11FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 680 Polychlorinated Biphenyls by GCMS

Method:

680 680 Analysis Batch: 680-103487

Instrument ID:

No Equipment Assigned to

Preparation:

Lab File ID:

Dilution:

1.0

Prep Batch: 680-101984

Initial Weight/Volume:

1030 mL

Date Analyzed:

04/10/2008 2348

Final Weight/Volume: 1 mL

Date Prepared:

04/02/2008 1350

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.097	U	0.097
Dichlorobiphenyl	0.097	U	0.097
Trichlorobiphenyl	0.097	U	0.097
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.29	U	0.29
Octachlorobiphenyl	0.29	U	0.29
Nonachlorobiphenyl	0.49	U	0.49
DCB Decachlorobiphenyl	0.49	U	0.49
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	50	**************************************	25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308-EB

Lab Sample ID:

680-35448-12EB

Date Sampled:

03/27/2008 1430

Client Matrix:

Water

Date Received:

03/28/2008 1145

680 Polychlorinated Biphenyls by GCMS

Preparation:

Method:

680 680 Analysis Batch: 680-103473

Instrument ID:

No Equipment Assigned to

Dilution:

Prep Batch: 680-102740

Lab File ID:

Date Analyzed:

1.0

Initial Weight/Volume: Final Weight/Volume:

1060 mL 1 mL

Date Prepared:

04/17/2008 1326 04/10/2008 1230

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	UH	0.094
Dichlorobiphenyl	0.094	UН	0.094
Trichlorobiphenyl	0.094	UН	0.094
Tetrachlorobipheny!	0.19	UН	0.19
Pentachlorobiphenyl	0.19	UН	0.19
Hexachlorobiphenyl	0.19	UН	0.19
Heptachlorobiphenyl	0.28	UН	0.28
Octachlorobiphenyl	0.28	UH	0.28
Nonachlorobiphenyl	0.47	UН	0.47
DCB Decachlorobiphenyl	0.47	UН	0.47
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	69		25 - 113

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-F-0308-EB

Lab Sample ID:

680-35448-13EB

Client Matrix:

Water

Date Sampled:

03/27/2008 1100

Date Received:

03/28/2008 1145

### 680 Polychlorinated Biphenyls by GCMS

Method:

680

Analysis Batch: 680-103941

Instrument ID:

No Equipment Assigned to

Preparation:

680

Prep Batch: 680-101984

Lab File ID:

1060 mL

Dilution: Date Analyzed:

Date Prepared:

1.0 04/22/2008 1332

Initial Weight/Volume: Final Weight/Volume:

1 mL

04/02/2008 1350

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	0.094	U	0.094
Dichlorobiphenyl	0.094	U	0.094
Trichlorobiphenyl	0.094	U	0.094
Tetrachlorobiphenyl	0.19	U	0.19
Pentachlorobiphenyl	0.19	U	0.19
Hexachlorobiphenyl	0.19	U	0.19
Heptachlorobiphenyl	0.28	U	0.28
Octachlorobiphenyl	0.28	U	0.28
Nonachlorobiphenyl	0.47	U	0.47
DCB Decachlorobiphenyl	0.47	U	0.47
Surrogate	%Rec		Acceptance Limits
	70	THE REPORT OF THE PROPERTY OF THE PARTY OF T	26 442

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID: Client Matrix:

680-35499-1

04/24/2008 1508

04/02/2008 1350

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

680 Polychlorinated Biphenyls by GCMS

Method: Preparation:

Date Analyzed:

Date Prepared:

680 680 Analysis Batch: 680-104168

Instrument ID:

No Equipment Assigned to

Dilution:

10

Prep Batch: 680-101983

Lab File ID:

Initial Weight/Volume:

1030 mL

Final Weight/Volume:

1 mL

Analyte	Result (ug/L)	Qualifier	RL
Monochlorobiphenyl	1.5	AND NOTICE AND	0.97
Dichlorobiphenyl	12		0.97
Trichlorobiphenyl	44		0.97
Tetrachlorobiphenyl	97		1.9
Pentachlorobiphenyl	73		1.9
Hexachlorobiphenyl	110		1.9
Heptachlorobiphenyl	89		2.9
Octachlorobiphenyl	12		2.9
Nonachlorobiphenyl	4.9	U	4.9
DCB Decachlorobiphenyl	4.9	U	4.9
Surrogate	%Rec		Acceptance Limits
Decachlorobiphenyl-13C12	0	D	25 - 113

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-F-0308

Lab Sample ID:

680-35499-3

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

#### 680 Polychlorinated Biphenyls by GCMS

Method:

680

Analysis Batch: 680-106369

Instrument ID:

No Equipment Assigned to

4.9

Preparation:

680

Lab File ID:

Dilution:

10

Prep Batch: 680-106388

Initial Weight/Volume:

1020 mL 1 mL

Date Analyzed: Date Prepared: 05/05/2008 1502 05/01/2008 1211

Final Weight/Volume: Injection Volume:

Analyte Result (ug/L) Qualifier RL Monochlorobiphenyl 0.98 UН 0.98 Dichlorobiphenyl 3.6 Н 0.98 Trichlorobiphenyl Н 0.98 11 Tetrachlorobiphenyl 35 Н 2.0 Pentachlorobiphenyl 28 Н 2.0 Hexachlorobiphenyl 42 Н 2.0 Heptachlorobiphenyl 39 Н 2.9 Octachlorobiphenyl 5.4 2.9 Nonachlorobiphenyl UН 4.9 4.9

Surrogate Decachlorobiphenyl-13C12

DCB Decachlorobiphenyl

%Rec Ó

4.9

Acceptance Limits

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID: Client Matrix:

680-35403-2

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C 3520C Analysis Batch: 680-102921

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

Prep Batch: 680-101542

Lab File ID: t5636.d Initial Weight/Volume:

Dilution: Date Analyzed: 1.0

Final Weight/Volume:

1050 mL 1 mL

Date Prepared:

04/08/2008 0015 03/28/2008 1505

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.5	U	9.5
Acenaphthylene	9.5	U	9.5
Acetophenone	9.5	U	9.5
2-Acetylaminofluorene	9.5	U	9.5
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.5	U	9.5
Aniline	19	U	19
Anthracene	9.5	U	9.5
Aramite, Total	9.5	U	9.5
Benzo[a]anthracene	9.5	U	9.5
Benzo[a]pyrene	9.5	U	9.5
Benzo[b]fluoranthene	9.5	U	9.5
Benzo[g,h,i]perylene	9.5	U	9.5
Benzo[k]fluoranthene	9.5	U	9.5
Benzyl alcohol	9.5	U	9.5
1,1'-Biphenyl	9.5	U	9.5
Bis(2-chloroethoxy)methane	9.5	U	9.5
Bis(2-chloroethyl)ether	9.5	U	9.5
bis(chloroisopropyl) ether	9.5	U	9.5
Bis(2-ethylhexyl) phthalate	9.5	U	9.5
4-Bromophenyl phenyl ether	9.5	U	9.5
Butyl benzyl phthalate	9.5	U	9.5
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.5	U	9.5
2-Chloronaphthalene	9.5	U	9.5
2-Chlorophenol	9.5	U	9.5
4-Chlorophenyl phenyl ether	9.5	U	9.5
Chrysene	9.5	U	9.5
Diallate	9.5	U	9.5
Dibenz(a,h)anthracene	9.5	U	9.5
Dibenzofuran	9.5	U	9.5
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.5	U	9.5
2,6-Dichlorophenol	9.5	U	9.5
Diethyl phthalate	9.5	U	9.5
Dimethoate	9.5	U	9.5
7,12-Dimethylbenz(a)anthracene	9.5	U	9.5
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.5	U	9.5
Dimethyl phthalate	9.5	Ū	9.5
Di-n-butyl phthalate	9.5	U	9.5
1,3-Dinitrobenzene	9.5	Ü	9.5
4,6-Dinitro-2-methylphenol	48	Ü	48
2,4-Dinitrophenol	48	Ü	48
TestAmerica Savannah	Page 59 of 1	155	

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID:

680-35403-2

Client Matrix:

Water

Date Sampled:

03/26/2008 1000

Date Received:

03/27/2008 1220

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-102921

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101542

Lab File ID:

t5636.d

RL 9.5

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume: 1050 mL 1 mL

Date Analyzed: Date Prepared:

04/08/2008 0015 03/28/2008 1505

Injection Volume:

1.0 uL

Analyte	
2,4-Dinitrotoluene	2 · 4 2000mar a wood 2000 20 · 40
2,6-Dinitrotoluene	
Di-n-octyl phthalate	
Dinoseb	
1,4-Dioxane	
Disulfoton	
Ethyl methanesulfonate	
Famphur	
Fluoranthene	
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachlorophene	
Hexachloropropene	
Indeno[1,2,3-cd]pyrene	
Isophorone	
Isosafrole	
Methapyrilene	
3-Methylcholanthrene	
Methyl methanesulfonate	
2-Methylnaphthalene	
Methyl parathion	
2-Methylphenol	
3 & 4 Methylphenol	
Naphthalene	
1,4-Naphthoquinone	
1-Naphthylamine	
2-Naphthylamine	
2-Nitroaniline	
3-Nitroaniline	
4-Nitroaniline	
Nitrobenzene	
2-Nitrophenol	
4-Nitrophenol	
4-Nitroquinoline-1-oxide	
N-Nitro-o-toluidine	
N-Nitrosodiethylamine	
N-Nitrosodimethylamine	
N-Nitrosodi-n-butylamine	
At Attended to the second and the second	

N-Nitrosodi-n-propylamine

N-Nitrosomethylethylamine

N-Nitrosodiphenylamine

Result (ug/L)	Qualifier
9.5	<u> </u>
9.5	U
4800	U
9.5	U
1900	U
9.5	U
48	U
48	U
48	U
9.5	U
9.5	U
48	U
19	U
9.5	U

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9.5

9.5

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW01S-0308

Lab Sample ID:

680-35403-2

Client Matrix:

Water

Date Sampled:

03/26/2008 1000 03/27/2008 1220

Date Received:

Method:

8270C

Analysis Batch: 680-102921

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Lab File ID:

t5636.d

Dilution:

1.0

Prep Batch: 680-101542

Initial Weight/Volume:

1050 mL

Date Analyzed:

04/08/2008 0015

Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Date Analyzeu.	04/00/2000	0013
Date Prepared:	03/28/2008	1505

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.5	U	9.5
N-Nitrosopiperidine	9.5	U	9.5
N-Nitrosopyrrolidine	9.5	U	9.5
o,o',o"-Triethylphosphorothioate	9.5	U	9.5
Ethyl Parathion	9.5	U	9.5
p-Dimethylamino azobenzene	9.5	U	9.5
Pentachlorobenzene	9.5	U	9.5
Pentachloronitrobenzene	9.5	U	9.5
Pentachlorophenol	48	υ	48
Phenacetin	9.5	U	9.5
Phenanthrene	9.5	U	9.5
Phenol	9.5	U	9.5
Phorate	9.5	U	9.5
2-Picoline	9.5	U	9.5
p-Phenylene diamine	1900	U	1900
Pronamide	9.5	U	9.5
Pyrene	9.5	U	9.5
Pyridine	48	U	48
Safrole, Total	9.5	U	9.5
Sulfotepp	9.5	U	9.5
1,2,4,5-Tetrachlorobenzene	9.5	U	9.5
2,3,4,6-Tetrachlorophenoi	9.5	U	9.5
Thionazin	9.5	U	9.5
2-Toluidine	9.5	U	9.5
1,2,4-Trichlorobenzene	9.5	U	9.5
2,4,5-Trichlorophenol	9.5	U	9.5
2,4,6-Trichlorophenol	9.5	U	9.5
1,3,5-Trinitrobenzene	9.5	U	9.5
1-Chloro-3-nitrobenzene	9.5	U	9.5
2-Nitrobiphenyl	9.5	U	9.5
2,4-Dichloronitrobenzene	9.5	$u \cdot - \kappa \alpha \beta$	9.5
3-Nitrobiphenyl	9.5	υ· — "ωJ" υ· — "ωJ"	9.5
3,4-Dichloronitrobenzene	9.5	u・ "ルブ"	9.5
4-Nitrobiphenyl	9.5	U	9.5
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19
Surrogate	%Rec	Acce	ptance Limits

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	64	50 - 113
2-Fluorophenol	51	36 - 110
Nitrobenzene-d5	56	45 - 112
Phenol-d5	54	38 - 116
Terphenyl-d14	65	10 - 121
2,4,6-Tribromophenol	76	40 - 139

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01M-0308

Lab Sample ID: Client Matrix: 680-35403-4

680-35403-Water Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-102921

Instrument ID: Lab File ID: GC/MS SemiVolatiles - T

Preparation: Dilution: 3520C

Prep Batch: 680-101542

Initial Weight/Volume:

t5637.d ne: 1060 mL

Date Analyzed:

1.0 04/08/2008 0039

Final Weight/Volume:

1 mL

Date Prepared:

03/28/2008 1505

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
I-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
pis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
-Chloroaniline	42		19
-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
-Chlorophenyl phenyl ether	9.4	Ü	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	Ü	9.4
Dibenz(a,h)anthracene	9.4	Ü	9.4
Dibenzofuran	9.4	Ü	9.4
3,3'-Dichlorobenzidine	19	Ü	19
2,4-Dichlorophenol	9.4	Ü	9.4
,,4-Dichlorophenol	9.4	Ü	9.4
Diethyl phthalate	9.4	Ü	9.4
Dimethoate	9.4	Ü	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
• • • • • • • • • • • • • • • • • • • •	19	U	19
,3'-Dimethylbenzidine	9.4	U	9.4
,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate		U	9.4
Di-n-butyl phthalate	9.4	U	9.4 9.4
,3-Dinitrobenzene	9.4		
,6-Dinitro-2-methylphenol	47	U	47
,4-Dinitrophenol	47	U	47

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Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW01M-0308

Lab Sample ID:

680-35403-4

Client Matrix:

Water

Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: Preparation: 8270C

Analysis Batch: 680-102921

Instrument ID:

GC/MS SemiVolatiles - T

t5637.d

Dilution:

3520C

Prep Batch: 680-101542

Lab File ID:

1060 mL

Date Analyzed:

1.0

Initial Weight/Volume: Final Weight/Volume:

Date Prepared:

TestAmerica Savannah

04/08/2008 0039 03/28/2008 1505

Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	Ü	9.4
Methyl parathion	9.4	Ü	9.4
2-Methylphenol	9.4	Ü	9.4
3 & 4 Methylphenol	9.4	Ü	9.4
Naphthalene	9.4	Ü	9.4
1,4-Naphthoquinone	9.4	Ü	9.4
1-Naphthylamine	9.4	Ü	9.4
2-Naphthylamine	9.4	Ü	9.4
2-Nitroaniline	47	Ü	47
3-Nitroaniline	47	Ü	47
4-Nitroaniline	47	Ü	47
Nitrobenzene	9.4	Ü	9.4
2-Nitrophenol	9.4	Ü	9.4
4-Nitrophenol	47	Ü	47
4-Nitroquinoline-1-oxide	19	Ü	19
4-Nitro-o-toluidine	9.4	U	9.4
	9.4	U	9.4
N-Nitrosodiethylamine	9.4 9.4	U	9.4
N-Nitrosodimethylamine	9.4 9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4 9.4	U	9.4 9.4
N-Nitrosodi-n-propylamine	9.4 9.4	U	9.4
N-Nitrosodiphenylamine		U	/
N-Nitrosomethylethylamine	9.4	U	9.4

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Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW01M-0308

Lab Sample ID:

680-35403-4

Client Matrix:

Water

Date Sampled:

03/26/2008 1020

Date Received:

03/27/2008 1220

	8270C Semivolatile Compounds by	Gas Chromatography/Mass Spectrometry (GC/MS)
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Method:

8270C

Analysis Batch: 680-102921

GC/MS SemiVolatiles - T Instrument ID: t5637.d

Preparation:

3520C

Prep Batch: 680-101542

Lab File ID:

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

1060 mL

Date Analyzed: Date Prepared:

04/08/2008 0039 03/28/2008 1505

Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Tnethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U 7"	9.4
2,4-Dichloronitrobenzene	9.4	"Zu" — "uJ"	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	0. — "KJ	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19
Surrogate	%Rec	Acce	otance Limits
2-Fluorobiphenyl	(49)	X 50 -	113

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	(49) X	50 - 113
2-Fluorophenol	40	36 - 110
Nitrobenzene-d5	46	45 - 112
Phenol-d5	43	38 - 116
Terphenyl-d14	41	10 - 121
2,4,6-Tribromophenol	62	40 - 139
•		

Page 64 of 155 TestAmerica Savannah

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

RL

t5867.d

Preparation:

3520C

Prep Batch: 680-101725

Result (ug/L)

Lab File ID:

Dilution:

Analyte

Initial Weight/Volume:

1060 mL

Date Analyzed:

5.0

04/24/2008 1244

Final Weight/Volume: Injection Volume:

Qualifier

1 mL 1.0 uL

Date	many zea.
Date	Prepared:

TestAmerica Savannah

03/31/2008 1525

· ······· <b>y</b>	, , ,		
Acenaphthene	47	U	47
Acenaphthylene	47	U	47
Acetophenone	47	U	47
2-Acetylaminofluorene	47	U	47
alpha,alpha-Dimethyl phenethylamine	9400	U	9400
4-Aminobiphenyl	47	U	47
Aniline	94	U	94
Anthracene	47	U	47
Aramite, Total	47	U	47
Benzo[a]anthracene	47	U	47
Benzo[a]pyrene	47	U	47
Benzo[b]fluoranthene	47	U	47
Benzo[g,h,i]perylene	47	U	47
Benzo[k]fluoranthene	47	U	47
Benzyl alcohol	47	U	47
1,1'-Biphenyl	47	U	47
Bis(2-chloroethoxy)methane	47	U	47
Bis(2-chloroethyl)ether	47	U	47
bis(chloroisopropyl) ether	47	U	47
Bis(2-ethylhexyl) phthalate	47	U	47
4-Bromophenyl phenyl ether	47	U	47
Butyl benzyl phthalate	47	U	47
4-Chloroaniline	94	U	94
4-Chloro-3-methylphenol	47	U	47
2-Chloronaphthalene	47	U	47
2-Chlorophenol	47	U	47
4-Chlorophenyl phenyl ether	47	U	47
Chrysene	47	U	47
Diallate	47	U	47
Dibenz(a,h)anthracene	47	U	47
Dibenzofuran	47	U	47
3,3'-Dichlorobenzidine	94	U	94
2,4-Dichlorophenol	47	U	47
2,6-Dichlorophenol	47	U	47
Diethyl phthalate	47	U	47
Dimethoate	47	U	47
7,12-Dimethylbenz(a)anthracene	47	U	47
3,3'-Dimethylbenzidine	94	U	94
2,4-Dimethylphenol	47	U	47
Dimethyl phthalate	47	U	47
Di-n-butyl phthalate	47	U	47
1,3-Dinitrobenzene	47	U	47
4,6-Dinitro-2-methylphenol	240	U	240
2,4-Dinitrophenol	240	U	240

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Job Number: 680-35403-1 Client: Solutia Inc. Sdg Number: KPM015

Client Sample ID: PMAMW02M-0308

03/27/2008 0905 Lab Sample ID: 680-35448-2 Date Sampled: Date Received: 03/28/2008 1145 Client Matrix: Water

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

8270C Method: Preparation: 3520C

Dilution: 5.0

04/24/2008 1244 Date Analyzed: 03/31/2008 1525 Date Prepared:

Analysis Batch: 680-104079

Prep Batch: 680-101725

Instrument ID:

t5867.d Lab File ID:

GC/MS SemiVolatiles - T

Initial Weight/Volume:

1060 mL

Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	47	Ū	47
2,6-Dinitrotoluene	47	U	47
Di-n-octyl phthalate	47	U	47
Dinoseb	47	U	47
1,4-Dioxane	47	U	47
Disulfoton	47	U	47
Ethyl methanesulfonate	47	U	47
Famphur	47	U	47
Fluoranthene	47	U	47
Fluorene	47	U	47
Hexachlorobenzene	47	U	47
Hexachlorobutadiene	47	U	47
Hexachlorocyclopentadiene	47	U	47
Hexachloroethane	47	U	47
Hexachlorophene	24000	U	24000
Hexachloropropene	47	U	47
Indeno[1,2,3-cd]pyrene	47	U	47
Isophorone	47	U	47
Isosafrole	47	U	47
Methapyrilene	9400	U	9400
3-Methylcholanthrene	47	U	47
Methyl methanesulfonate	47	U	47
2-Methylnaphthalene	47	U	47
Methyl parathion	47	U	47
2-Methylphenol	47	U	47
3 & 4 Methylphenol	47	U	47
Naphthalene	47	U	47
1,4-Naphthoquinone	47	U	47
1-Naphthylamine	47	U	47
2-Naphthylamine	47	U	47
2-Nitroaniline	240	U	240
3-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	47	U	47
2-Nitrophenol	47	U	47
4-Nitrophenol	240	U	240
4-Nitroquinoline-1-oxide	94	U	94
N-Nitro-o-toluidine	47	U	47
N-Nitrosodiethylamine	47	U	47
N-Nitrosodimethylamine	47	U	47
N-Nitrosodi-n-butylamine	47	U	47
N-Nitrosodi-n-propylamine	47	Ü	47
N-Nitrosodiphenylamine	47	Ü	47
N-Nitrosomethylethylamine	47	Ü	47
TestAmerica Savannah			/

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02M-0308

Lab Sample ID:

680-35448-2

Client Matrix:

Water

Date Sampled:

03/27/2008 0905

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

t5867.d

Dilution:

5.0

Initial Weight/Volume:

1060 mL

Date Analyzed: Date Prepared:

TestAmerica Savannah

04/24/2008 1244 03/31/2008 1525 Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	47	U	47
N-Nitrosopiperidine	47	U	47
N-Nitrosopyrrolidine	47	U	47
o,o',o"-Triethylphosphorothioate	47	U	47
Ethyl Parathion	47	U	47
p-Dimethylamino azobenzene	47	U	47
Pentachlorobenzene	47	U	47
Pentachloronitrobenzene	47	U	47
Pentachlorophenol	240	U	240
Phenacetin	47	U	47
Phenanthrene	47	U	47
Phenol	47	U	47
Phorate	47	U	47
2-Picoline	47	U	47
p-Phenylene diamine	9400	U	9400
Pronamide	47	U	47
Pyrene	47	U	47
Pyridine	240	U	240
Safrole, Total	47	U	47
Sulfotepp	47	U	47
1,2,4,5-Tetrachlorobenzene	47	U	47
2,3,4,6-Tetrachlorophenol	47	U	47
Thionazin	47	U	47
2-Toluidine	47	U	47
1,2,4-Trichlorobenzene	47	U	47
2,4,5-Trichlorophenol	47	U	47
2,4,6-Trichlorophenol	47	U	47
1,3,5-Trinitrobenzene	47	U	47
1-Chloro-3-nitrobenzene	47	U	47
2-Nitrobiphenyl	47	U	47
2,4-Dichloronitrobenzene	47	U	47
3-Nitrobiphenyl	47	U	47
3,4-Dichloronitrobenzene	47	U	47
4-Nitrobiphenyl	47	U	47
2-chloronitrobenzene / 4-chloronitrobenzene	94	Ü	94
Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	0	D	50 - 113

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	701	D	50 - 113
2-Fluorophenol	( 0 )	D	36 - 110
Nitrobenzene-d5	0	D	45 - 112
Phenol-d5	0	D	38 - 116
Terphenyl-d14	$\bigcirc$	D	10 - 121
2,4,6-Tribromophenol	60		40 - 139

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Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Water Client Matrix:

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

## 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C 3520C Analysis Batch: 680-103317

Instrument ID: Lab File ID: t5763.d

GC/MS SemiVolatiles - T

Preparation:

TestAmerica Savannah

Dilution: 1.0 Prep Batch: 680-101725

Initial Weight/Volume:

1060 mL

Date Analyzed: Date Prepared: 04/16/2008 1433 03/31/2008 1525

Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	Ü	9.4
Dimethyl phthalate	9.4	Ü	9.4
Di-n-butyl phthalate	9.4	Ü	9.4
1,3-Dinitrobenzene	9.4	Ü	9.4
4,6-Dinitro-2-methylphenol	47	Ü	47
2,4-Dinitrophenol	47	Ü	47

Page 68 of 155

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

## 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

1060 mL

Date Analyzed: Date Prepared: 04/16/2008 1433 03/31/2008 1525

Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	Ü	9.4
Methyl parathion	9.4	Ü	9.4
2-Methylphenol	9.4	Ü	9.4
3 & 4 Methylphenol	9.4	Ü	9.4
Naphthalene	9.4	Ü	9.4
	9.4	Ü	9.4
1,4-Naphthoquinone	9.4	Ü	9.4
1-Naphthylamine	9.4	Ü	9.4
2-Naphthylamine	47	Ü	47
2-Nitroaniline	47	Ü	47
3-Nitroaniline	47 47	U	47
4-Nitroaniline		U	9.4
Nitrobenzene	9.4		9.4
2-Nitrophenol	9.4	U	9.4 47
4-Nitrophenol	47	U	
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.4	U	9.4
N-Nitrosodiethylamine	9.4	U	9.4
N-Nitrosodimethylamine	9.4	U	9.4
N-Nitrosodi-n-butylamine	9.4	U	9.4
N-Nitrosodi-n-propylamine	9.4	U	9.4
N-Nitrosodiphenylamine	9.4	U	9.4
N-Nitrosomethylethylamine	9.4	U	9.4
TestAmerica Savannah	Page 69 of 3	155	/
	_		

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308

Lab Sample ID:

680-35448-4

Client Matrix:

Water

Date Sampled:

03/27/2008 1145

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

t5763.d

Dilution:

1.0

.

Initial Weight/Volume:

36 - 110 45 - 112 1060 mL

Date Analyzed: Date Prepared:

2-Fluorophenol

Nitrobenzene-d5

TestAmerica Savannah

04/16/2008 1433 03/31/2008 1525 Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	31		9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	53		9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19
Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	56	ander y processor de la company de la marche de la company de la company de la company de la company de la comp	50 - 113
			40. 440

 PhenoI-d5
 55
 38 - 116

 TerphenyI-d14
 54
 10 - 121

 2,4,6-Tribromophenol
 61
 40 - 139

54

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

M PMAMW03≸-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID: t5868.d

Dilution:

5.0

Initial Weight/Volume: Final Weight/Volume: 1060 mL

Date Analyzed: Date Prepared: 04/24/2008 1308 03/31/2008 1525

Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	47	U The second sec	47
Acenaphthylene	47	U	47
Acetophenone	47	U	47
2-Acetylaminofluorene	47	U	47
alpha,alpha-Dimethyl phenethylamine	9400	U	9400
4-Aminobiphenyl	47	U	47
Aniline	94	U	94
Anthracene	47	U	47
Aramite, Total	47	U	47
Benzo[a]anthracene	47	IJ	47
Benzo[a]pyrene	47	U	47
Benzo[b]fluoranthene	47	U	47
Benzo[g,h,i]perylene	47	U	47
Benzo[k]fluoranthene	47	U	47
Benzyl alcohol	47	Ü	47
1,1'-Biphenyl	47	U	47
Bis(2-chloroethoxy)methane	47	Ü	47
Bis(2-chloroethyl)ether	47	Ü	47
bis(chloroisopropyl) ether	47	Ü	47
Bis(2-ethylhexyl) phthalate	47	Ü	47
4-Bromophenyl phenyl ether	47	Ü	47
Butyl benzyl phthalate	47	Ü	47
4-Chloroaniline	120	9	94
4-Chloro-3-methylphenol	47	U	47
2-Chloronaphthalene	47	Ü	47
	47	U	47
2-Chlorophenol	47	U	47
4-Chlorophenyl phenyl ether	47	U	47
Chrysene		U	47
Diallate	47 47	U	47
Dibenz(a,h)anthracene			47
Dibenzofuran	47	U	94
3,3'-Dichlorobenzidine	94	U	
2,4-Dichlorophenol	47	U	47
2,6-Dichlorophenol	47	U	47
Diethyl phthalate	47	U	47
Dimethoate	47	U	47
7,12-Dimethylbenz(a)anthracene	47	U	47
3,3'-Dimethylbenzidine	94	U	94
2,4-Dimethylphenol	47	U	47
Dimethyl phthalate	47	U	47
Di-n-butyl phthalate	47	U	47
1,3-Dinitrobenzene	47	U	47
4,6-Dinitro-2-methylphenol	240	U	240
2,4-Dinitrophenol	240	U	240
TestAmerica Savannah	Page 71 of 3	155	

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

*M* PMAMW03≴-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C 3520C Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T t5868.d

Preparation: Dilution:

Prep Batch: 680-101725

Lab File ID: Initial Weight/Volume:

1060 mL

Date Analyzed:

5.0

Final Weight/Volume:

1 mL

Date Prepared:

04/24/2008 1308 03/31/2008 1525

1.0 uL Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	47	U	47
2,6-Dinitrotoluene	47	U	47
Di-n-octyl phthalate	47	U	47
Dinoseb	47	U	47
1,4-Dioxane	47	U	47
Disulfoton	47	U	47
Ethyl methanesulfonate	47	U	47
Famphur	47	U	47
Fluoranthene	47	U	47
Fluorene	47	U	47
Hexachlorobenzene	47	U	47
Hexachlorobutadiene	47	U	47
Hexachlorocyclopentadiene	47	U	47
Hexachloroethane	47	U	47
Hexachlorophene	24000	U	24000
Hexachloropropene	47	U	47
Indeno[1,2,3-cd]pyrene	47	Ü	47
Isophorone	47	Ü	47
Isosafrole	47	Ü	47
Methapyrilene	9400	Ü	9400
3-Methylcholanthrene	47	Ü	47
	47	Ü	47
Methyl methanesulfonate	47	U	47
2-Methylnaphthalene	47	U	47
Methyl parathion	47	U	47
2-Methylphenol	47	U	47
3 & 4 Methylphenol	47	U	47
Naphthalene	47	U	47
1,4-Naphthoquinone		U	47 47
1-Naphthylamine	47		47
2-Naphthylamine	47	U	
2-Nitroaniline	240	U	240
3-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	47	U	47
2-Nitrophenol	47	U	47
4-Nitrophenol	240	U	240
4-Nitroquinoline-1-oxide	94	U	94
N-Nitro-o-toluidine	47	U	47
N-Nitrosodiethylamine	47	U	47
N-Nitrosodimethylamine	47	U	47
N-Nitrosodi-n-butylamine	47	U	47
N-Nitrosodi-n-propylamine	47	U	47
N-Nitrosodiphenylamine	47	U	47
N-Nitrosomethylethylamine	47	U	47
Total marine Community	Page 72 of	155	

Page 72 of 155 TestAmerica Savannah

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

.∕\ PMAMW03**≴**-0308

Lab Sample ID:

680-35448-6

Client Matrix:

Water

Date Sampled:

03/27/2008 1530

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

Preparation: Dilution: 3520C

Prep Batch: 680-101725

Lab File ID: t5/ Initial Weight/Volume:

1060 mL

Date Analyzed:

5.0

Final Weight/Volume:

1 mL

Date Prepared:

04/24/2008 1308 03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	47	U	47
N-Nitrosopiperidine	47	U	47
N-Nitrosopyrrolidine	47	U	47
o,o',o"-Triethylphosphorothioate	47	U	47
Ethyl Parathion	47	U	47
p-Dimethylamino azobenzene	47	U	47
Pentachlorobenzene	47	U	47
Pentachloronitrobenzene	47	U	47
Pentachlorophenol	240	U	240
Phenacetin	47	U	47
Phenanthrene	47	U	47
Phenol	47	ับ	47
Phorate	47	U	47
2-Picoline	47	U	47
p-Phenylene diamine	9400	U	9400
Pronamide	47	U	47
Pyrene	47	U	47
Pyridine	240	U	240
Safrole, Total	47	U	47
Sulfotepp	47	บ	47
1,2,4,5-Tetrachlorobenzene	47	U	47
2,3,4,6-Tetrachlorophenol	47	บ	47
Thionazin	47	U	47
2-Toluidine	47	U	47
1,2,4-Trichlorobenzene	47	U	47
2,4,5-Trichlorophenol	47	U	47
2,4,6-Trichlorophenol	47	U	47
1,3,5-Trinitrobenzene	47	U	47
1-Chloro-3-nitrobenzene	47	U	47
2-Nitrobiphenyl	47	U	47
2,4-Dichloronitrobenzene	47	U	47
3-Nitrobiphenyl	47	U	47
3,4-Dichloronitrobenzene	47	U	47
4-Nitrobiphenyl	47	U	47
2-chloronitrobenzene / 4-chloronitrobenzene	94	Ü	94
Surrogate	Rec		Acceptance Limits
2-Fluorobiphenyl	0	D	50 - 113
2-Fluorophenol	/ 0	D	36 - 110

TestAmerica Savannah

2,4,6-Tribromophenol

Nitrobenzene-d5

Terphenyl-d14

Phenol-d5

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0

0

D

D

D

45 - 112

38 - 116

10 - 121

40 - 139

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

5 PMAMW03**M**-0308

Lab Sample ID:

680-35448-8

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

TestAmerica Savannah

3520C

Lab File ID:

t5765.d

Dilution:

1.0

Prep Batch: 680-101725

Initial Weight/Volume: Final Weight/Volume:

1060 mL

Date Analyzed: Date Prepared: 04/16/2008 1520 03/31/2008 1525

Injection Volume:

1 mL 1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U	9.4
Di-n-butyl phthalate	9.4	บ	9.4
1,3-Dinitrobenzene	9.4	Ū	9.4
4,6-Dinitro-2-methylphenol	47	U	47
2,4-Dinitrophenol	47	Ü	47

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

5 PMAMW03**M**-0308

Lab Sample ID:

680-35448-8

Client Matrix: Water Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID: GC/MS SemiVolatiles - T

Preparation:

3520C

t5765.d Lab File ID:

Dilution:

1.0

Prep Batch: 680-101725

Initial Weight/Volume:

1060 mL

Date Analyzed:

04/16/2008 1520

Final Weight/Volume:

1 mL

Date Prepared:

03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.4	U	9.4
2,6-Dinitrotoluene	9.4	U	9.4
Di-n-octyl phthalate	9.4	U	9.4
Dinoseb	9.4	U	9.4
1,4-Dioxane	9.4	U	9.4
Disulfoton	9.4	U	9.4
Ethyl methanesulfonate	9.4	U	9.4
Famphur	9.4	U	9.4
Fluoranthene	9.4	U	9.4
Fluorene	9.4	U	9.4
Hexachlorobenzene	9.4	U	9.4
Hexachlorobutadiene	9.4	U	9.4
Hexachlorocyclopentadiene	9.4	U	9.4
Hexachloroethane	9.4	U	9.4
Hexachlorophene	4700	U	4700
Hexachloropropene	9.4	U	9.4
Indeno[1,2,3-cd]pyrene	9.4	U	9.4
Isophorone	9.4	U	9.4
Isosafrole	9.4	U	9.4
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.4	U	9.4
Methyl methanesulfonate	9.4	U	9.4
2-Methylnaphthalene	9.4	U	9.4
Methyl parathion	9.4	U	9.4
2-Methylphenol	9.4	U	9.4
3 & 4 Methylphenol	9.4	U	9.4
Naphthalene	9.4	U	9.4
1,4-Naphthoquinone	9.4	U	9.4
1-Naphthylamine	9.4	U	9.4
2-Naphthylamine	9.4	U	9.4
2-Nitroaniline	47	U	47
3-Nitroaniline	47	Ü	47
4-Nitroaniline	47	U	47
Nitrobenzene	9.4	Ü	9.4
2-Nitrophenol	9.4	U	9.4
4-Nitrophenol	47	Ü	47
4-Nitroquinoline-1-oxide	19	Ü	19
N-Nitro-o-toluidine	9.4	Ü	9.4
N-Nitrosodiethylamine	9.4	Ü	9.4
N-Nitrosodimethylamine	9.4	Ü	9.4
N-Nitrosodi-n-butylamine	9.4	Ü	9.4
N-Nitrosodi-n-propylamine	9.4	Ü	9.4
N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	9.4	Ü	9.4
N-Nitrosomethylethylamine	9.4	Ü	9.4

**TestAmerica Savannah** 

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

S PMAMW03M-0308

Lab Sample ID:

680-35448-8

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID: Lab File ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

t5765.d Initial Weight/Volume:

1060 mL

Dilution: Date Analyzed: 1.0

04/16/2008 1520

Final Weight/Volume:

1 mL

Date Prepared:

03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	<b>4</b> 7	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	- U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	U	9.4
2,4-Dichloronitrobenzene	9.4	U	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19
Surrogate	%Rec		Acceptance Limits

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	68	50 - 113
2-Fluorophenol	57	36 - 110
Nitrobenzene-d5	60	45 - 112
Phenol-d5	60	38 - 116
Terphenyl-d14	82	10 - 121
2,4,6-Tribromophenol	68	40 - 139

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID: t5869.d

Dilution:

5.0

Initial Weight/Volume:

1060 mL 1 mL

Date Analyzed:

04/24/2008 1331

Final Weight/Volume: Injection Volume:

1.0 uL

Date Allalyzeu.	04/24/2000	100
Date Prepared:	03/31/2008	1525

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	47	U	47
Acenaphthylene	47	U	47
Acetophenone	47	U	47
2-Acetylaminofluorene	47	U	47
alpha,alpha-Dimethyl phenethylamine	9400	U	9400
4-Aminobiphenyl	47	U	47
Aniline	94	U	94
Anthracene	47	U	47
Aramite, Total	47	U	47
Benzo[a]anthracene	47	U	47
Benzo[a]pyrene	47	U	47
Benzo[b]fluoranthene	47	U	47
Benzo[g,h,i]perylene	47	U	47
Benzo[k]fluoranthene	47	U	47
Benzyl alcohol	47	U	47
1,1'-Biphenyl	47	U	47
Bis(2-chloroethoxy)methane	47	U	47
Bis(2-chloroethyl)ether	47	U	47
bis(chloroisopropyl) ether	47	U	47
Bis(2-ethylhexyl) phthalate	47	U	47
4-Bromophenyl phenyl ether	47	U	47
Butyl benzyl phthalate	47	U	47
4-Chloroaniline	120		94
4-Chloro-3-methylphenol	47	U	47
2-Chloronaphthalene	47	U	47
2-Chlorophenol	47	U	47
4-Chlorophenyl phenyl ether	47	U	47
Chrysene	47	U	47
Diallate	47	U	47
Dibenz(a,h)anthracene	47	U	47
Dibenzofuran	47	U	47
3,3'-Dichlorobenzidine	94	U	94
2,4-Dichlorophenol	47	U	47
2,6-Dichlorophenol	47	U	47
Diethyl phthalate	47	U	47
Dimethoate	47	U	47
7,12-Dimethylbenz(a)anthracene	47	U	47
3,3'-Dimethylbenzidine	94	U	94
2,4-Dimethylphenol	47	Ü	47
Dimethyl phthalate	47	Ü	47
Di-n-butyl phthalate	47	Ü	47
1,3-Dinitrobenzene	47	Ü	47
4,6-Dinitro-2-methylphenol	240	Ü	240
2,4-Dinitrophenol	240	Ü	240
2,4-5/11/10/00/10/10/1	240	3	/

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

t5869.d

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

1060 mL

Dilution:

5.0

Initial Weight/Volume: Final Weight/Volume:

1 mL

Date Analyzed: Date Prepared:

TestAmerica Savannah

04/24/2008 1331 03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	47	U	47
2,6-Dinitrotoluene	47	U	47
Di-n-octyl phthalate	47	U	47
Dinoseb	47	U	47
1,4-Dioxane	47	U	47
Disulfoton	47	U	47
Ethyl methanesulfonate	47	U	47
Famphur	47	U	47
Fluoranthene	47	U	47
Fluorene	47	U	47
Hexachlorobenzene	47	U	47
Hexachlorobutadiene	47	U	47
Hexachlorocyclopentadiene	47	U	47
Hexachloroethane	47	U	47
Hexachlorophene	24000	U	24000
Hexachloropropene	47	U	47
Indeno[1,2,3-cd]pyrene	47	U	47
Isophorone	47	U	47
Isosafrole	47	U	47
Methapyrilene	9400	U	9400
3-Methylcholanthrene	47	U	47
Methyl methanesulfonate	47	U	47
2-Methylnaphthalene	47	U	47
Methyl parathion	47	U	47
2-Methylphenol	47	U	47
3 & 4 Methylphenol	47	U	47
Naphthalene	47	U	47
1,4-Naphthoquinone	47	U	47
1-Naphthylamine	47	U	47
2-Naphthylamine	47	U	47
2-Nitroaniline	240	U	240
3-Nitroaniline	240	U	240
4-Nitroaniline	240	U	240
Nitrobenzene	47	U	47
2-Nitrophenol	47	U	47
4-Nitrophenol	240	U	240
4-Nitroquinoline-1-oxide	94	U	94
N-Nitro-o-toluidine	47	U	47
N-Nitrosodiethylamine	47	U	47
N-Nitrosodimethylamine	47	U	47
N-Nitrosodi-n-butylamine	47	U	47
N-Nitrosodi-n-propylamine	47	U	47
N-Nitrosodiphenylamine	47	U	47 /
N-Nitrosomethylethylamine	47	U	47

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Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW03M-0308-AD

Lab Sample ID:

680-35448-10FD

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-104079

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

Dilution:

5.0

Initial Weight/Volume:

1060 mL

Date Analyzed:

04/24/2008 1331

Final Weight/Volume:

1 mL

Date Prepared:

03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	47	U	47
N-Nitrosopiperidine	47	U	47
N-Nitrosopyrrolidine	47	U	47
o,o',o"-Triethylphosphorothioate	47	U	47
Ethyl Parathion	47	U	47
p-Dimethylamino azobenzene	47	U	47
Pentachlorobenzene	47	U	47
Pentachloronitrobenzene	47	U	47
Pentachlorophenol	240	U	240
Phenacetin	47	U	47
Phenanthrene	47	U	47
Phenol	47	U	47
Phorate	47	U	47
2-Picoline	47	U	47
p-Phenylene diamine	9400	U	9400
Pronamide	47	U	47
Pyrene	47	U	47
Pyridine	240	U	240
Safrole, Total	47	U	47
Sulfotepp	47	U	. 47
1,2,4,5-Tetrachlorobenzene	47	U	47
2,3,4,6-Tetrachlorophenol	47	U	47
Thionazin	47	U	47
2-Toluidine	47	U	47
1,2,4-Trichlorobenzene	47	U	47
2,4,5-Trichlorophenol	47	U	47
2,4,6-Trichlorophenol	47	U	47
1,3,5-Trinitrobenzene	47	U	47
1-Chloro-3-nitrobenzene	47	U	47
2-Nitrobiphenyl	47	U	47
2,4-Dichloronitrobenzene	47	U	47
3-Nitrobiphenyl	47	U	47
3,4-Dichloronitrobenzene	47	U	47
4-Nitrobiphenyl	47	U	47
2-chloronitrobenzene / 4-chloronitrobenzene	94	U	94
Surrogate	%Rec		Acceptance Limits

2-Fluorobiphenyl D 50 - 113 0 D 2-Fluorophenol 36 - 110 Nitrobenzene-d5 0 D 45 - 112 Phenol-d5 0 D 38 - 116 Terphenyl-d14 0 D 10 - 121 2,4,6-Tribromophenol D 40 - 139

TestAmerica Savannah Page 79 of 155

Client: Solutia Inc. Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308-EB

Lab Sample ID:

680-35448-12EB

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

t5767.d

RL

Dilution:

1.0

Result (ug/L)

Initial Weight/Volume: Final Weight/Volume:

1060 mL

Date Analyzed:

TestAmerica Savannah

Analyte

04/16/2008 1608

Injection Volume:

Qualifier

1 mL 1.0 uL

Date Prepared: 03/31/2008 1525

Allalyte	rvesuit (ug/L)	Qualifier	1/4
Acenaphthene	9.4	U	9.4
Acenaphthylene	9.4	U	9.4
Acetophenone	9.4	U	9.4
2-Acetylaminofluorene	9.4	U	9.4
alpha,alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.4	U	9.4
Aniline	19	U	19
Anthracene	9.4	U	9.4
Aramite, Total	9.4	U	9.4
Benzo[a]anthracene	9.4	U	9.4
Benzo[a]pyrene	9.4	U	9.4
Benzo[b]fluoranthene	9.4	U	9.4
Benzo[g,h,i]perylene	9.4	U	9.4
Benzo[k]fluoranthene	9.4	U	9.4
Benzyl alcohol	9.4	U	9.4
1,1'-Biphenyl	9.4	U	9.4
Bis(2-chloroethoxy)methane	9.4	U	9.4
Bis(2-chloroethyl)ether	9.4	U	9.4
bis(chloroisopropyl) ether	9.4	U	9.4
Bis(2-ethylhexyl) phthalate	9.4	U	9.4
4-Bromophenyl phenyl ether	9.4	U	9.4
Butyl benzyl phthalate	9.4	U	9.4
4-Chloroaniline	19	U	19
4-Chloro-3-methylphenol	9.4	U	9.4
2-Chloronaphthalene	9.4	U	9.4
2-Chlorophenol	9.4	U	9.4
4-Chlorophenyl phenyl ether	9.4	U	9.4
Chrysene	9.4	U	9.4
Diallate	9.4	U	9.4
Dibenz(a,h)anthracene	9.4	U	9.4
Dibenzofuran	9.4	U	9.4
3,3'-Dichlorobenzidine	19	U	19
2,4-Dichlorophenol	9.4	U	9.4
2,6-Dichlorophenol	9.4	U	9.4
Diethyl phthalate	9.4	U	9.4
Dimethoate	9.4	U	9.4
7,12-Dimethylbenz(a)anthracene	9.4	U	9.4
3,3'-Dimethylbenzidine	19	U	19
2,4-Dimethylphenol	9.4	U	9.4
Dimethyl phthalate	9.4	U .	9.4
Di-n-butyl phthalate	9.4	Ū	9.4
1,3-Dinitrobenzene	9.4	Ū	9.4
4,6-Dinitro-2-methylphenol	47	Ü	47
2,4-Dinitrophenol	47	Ü	47

Page 80 of 155

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308-EB

Lab Sample ID:

680-35448-12EB

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

RL. 9.4

t5767.d

Preparation:

3520C

Prep Batch: 680-101725

Lab File ID:

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume: 1060 mL 1 mL

Date Analyzed: Date Prepared: 04/16/2008 1608 03/31/2008 1525

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	
2,4-Dinitrotoluene	9.4	U	
2,6-Dinitrotoluene	9.4	U	
Di-n-octyl phthalate	9.4	U	
Dinoseb	9.4	U	
1,4-Dioxane	9.4	U	
Disulfoton	9.4	U	
Ethyl methanesulfonate	9.4	U	
Famphur	9.4	U	
Fluoranthene	9.4	U	
Fluorene	9.4	U	
Hexachlorobenzene	9.4	U	
Hexachlorobutadiene	9.4	U	
Hexachlorocyclopentadiene	9.4	U	
Hexachloroethane	9.4	U	
Hexachlorophene	4700	U	
Hexachloropropene	9.4	U	
Indeno[1,2,3-cd]pyrene	9.4	U	
Isophorone	9.4	U	
Isosafrole	9.4	U	
Methapyrilene	1900	U	
3-Methylcholanthrene	9.4	U	
Methyl methanesulfonate	9.4	U	
2-Methylnaphthalene	9.4	U	
Methyl parathion	9.4	U	
2-Methylphenol	9.4	U	
3 & 4 Methylphenol	9.4	U	
Naphthalene	9.4	U	
1,4-Naphthoquinone	9.4	U	
1-Naphthylamine	9.4	U	
2-Naphthylamine	9.4	U	
2-Nitroaniline	47	U	
3-Nitroaniline	47	U	
4-Nitroaniline	47	U	
Nitrobenzene	9.4	U	
2-Nitrophenol	9.4	U	
4-Nitrophenol	47	U	
4-Nitroquinoline-1-oxide	19	U	
N-Nitro-o-toluidine	9.4	U	
N-Nitrosodiethylamine	9.4	U	
N-Nitrosodimethylamine	9.4	U	
N-Nitrosodi-n-butylamine	9.4	U	
N-Nitrosodi-n-propylamine	9.4	U	

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	/

N-Nitrosodiphenylamine

N-Nitrosomethylethylamine

U

U

9.4

9.4

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW02S-0308-EB

Lab Sample ID:

680-35448-12EB

Client Matrix:

Water

Date Sampled:

03/27/2008 1430

Date Received:

03/28/2008 1145

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: Preparation: 8270C 3520C Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Prep Batch: 680-101725

Lab File ID:

t5767.d

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume: 1060 mL 1 mL

Date Analyzed:

04/16/2008 1608

Injection Volume:

1.0 uL

Date Prepared:

03/31/2008 1525

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.4	U	9.4
N-Nitrosopiperidine	9.4	U	9.4
N-Nitrosopyrrolidine	9.4	U	9.4
o,o',o"-Triethylphosphorothioate	9.4	U	9.4
Ethyl Parathion	9.4	U	9.4
p-Dimethylamino azobenzene	9.4	U	9.4
Pentachlorobenzene	9.4	U	9.4
Pentachloronitrobenzene	9.4	U	9.4
Pentachlorophenol	47	U	47
Phenacetin	9.4	U	9.4
Phenanthrene	9.4	U	9.4
Phenol	9.4	U	9.4
Phorate	9.4	U	9.4
2-Picoline	9.4	U	9.4
p-Phenylene diamine	1900	U	1900
Pronamide	9.4	U	9.4
Pyrene	9.4	U	9.4
Pyridine	47	U	47
Safrole, Total	9.4	U	9.4
Sulfotepp	9.4	U	9.4
1,2,4,5-Tetrachlorobenzene	9.4	U	9.4
2,3,4,6-Tetrachlorophenol	9.4	U	9.4
Thionazin	9.4	U	9.4
2-Toluidine '	9.4	U	9.4
1,2,4-Trichlorobenzene	9.4	U	9.4
2,4,5-Trichlorophenol	9.4	U	9.4
2,4,6-Trichlorophenol	9.4	U	9.4
1,3,5-Trinitrobenzene	9.4	U	9.4
1-Chloro-3-nitrobenzene	9.4	U	9.4
2-Nitrobiphenyl	9.4	υ	9.4
2,4-Dichloronitrobenzene	9.4	U.	9.4
3-Nitrobiphenyl	9.4	U	9.4
3,4-Dichloronitrobenzene	9.4	U	9.4
4-Nitrobiphenyl	9.4	U	9.4
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	74	50 - 113
2-Fluorophenol	61	36 - 110
Nitrobenzene-d5	63	45 - 112
Phenol-d5	61	38 - 116
Terphenyl-d14	88	10 - 121
2,4,6-Tribromophenol	71	40 - 139

Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID: Client Matrix:

680-35499-1 Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

## 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C 3520C Analysis Batch: 680-103231

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

Prep Batch: 680-101982

t5649.d Lab File ID: Initial Weight/Volume:

Dilution:

1.0

Final Weight/Volume:

1030 mL 1 mL

Date Analyzed: Date Prepared: 04/08/2008 1704 04/02/2008 0957

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
Acenaphthene	9.7	U	9.7
Acenaphthylene	9.7	U	9.7
Acetophenone	9.7	U	9.7
2-Acetylaminofluorene	9.7	U	9.7
alpha, alpha-Dimethyl phenethylamine	1900	U	1900
4-Aminobiphenyl	9.7	U	9.7
Aniline	19	U	19
Anthracene	9.7	U	9.7
Aramite, Total	9.7	U	9.7
Benzo[a]anthracene	9.7	U	9.7
Benzo[a]pyrene	9.7	U	9.7
Benzo[b]fluoranthene	9.7	U	9.7
Benzo[g,h,i]perylene	9.7	U	9.7
Benzo[k]fluoranthene	9.7	U	9.7
Benzyl alcohol	9.7	U	9.7
1,1'-Biphenyl	9.7	U	9.7
Bis(2-chloroethoxy)methane	9.7	U	9.7
Bis(2-chloroethyl)ether	9.7	U	9.7
bis(chloroisopropyl) ether	9.7	U	9.7
Bis(2-ethylhexyl) phthalate	9.7	U	9.7
4-Bromophenyl phenyl ether	9.7	U	9.7
Butyl benzyl phthalate	9.7	U	9.7
4-Chloroaniline	38		19
4-Chloro-3-methylphenol	9.7	U	9.7
2-Chloronaphthalene	9.7	Ü	9.7
2-Chlorophenol	9.7	Ü	9.7
4-Chlorophenyl phenyl ether	9.7	Ü	9.7
Chrysene	9.7	Ü	9.7
Diallate	9.7	Ü	9.7
Dibenz(a,h)anthracene	9.7	Ü	9.7
Dibenzofuran	9.7	Ü	9.7
3,3'-Dichlorobenzidine	19	Ü	19
2,4-Dichlorophenol	9.7	Ü	9.7
2,6-Dichlorophenol	9.7	Ü	9.7
Diethyl phthalate	9.7	Ü	9.7
Dimethoate	9.7	Ŭ	9.7
7,12-Dimethylbenz(a)anthracene	9.7	Ü	9.7
	19	Ü	19
3,3'-Dimethylbenzidine	9.7	U	9.7
2,4-Dimethylphenol		U	9.7
Dimethyl phthalate	9.7 9.7	U	9.7
Di-n-butyl phthalate	9.7 9.7	U	9.7
1,3-Dinitrobenzene		U	49
4,6-Dinitro-2-methylphenol	49	U	
2,4-Dinitrophenol	49	U	49
TestAmerica Savannah	Page 83 of	155	

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103231

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101982

Lab File ID:

t5649.d

Dilution:

TestAmerica Savannah

1.0

Frep Baton. 000-101902

Initial Weight/Volume: Final Weight/Volume:

1030 mL 1 mL

Date Analyzed: Date Prepared: 04/08/2008 1704

04/02/2008 0957

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	9.7	U	9.7
2,6-Dinitrotoluene	9.7	U	9.7
Di-n-octyl phthalate	9.7	U	9.7
Dinoseb	9.7	U	9.7
1,4-Dioxane	9.7	U	9.7
Disulfoton	9.7	U	9.7
Ethyl methanesulfonate	9.7	U	9.7
Famphur	9.7	U	9.7
Fluoranthene	9.7	U	9.7
Fluorene	9.7	U	9.7
Hexachlorobenzene	9.7	U	9.7
Hexachlorobutadiene	9.7	U	9.7
Hexachlorocyclopentadiene	9.7	U	9.7
Hexachloroethane	9.7	U	9.7
Hexachlorophene	4900	U	4900
Hexachloropropene	9.7	U	9.7
Indeno[1,2,3-cd]pyrene	9.7	U	9.7
Isophorone	9.7	U	9.7
Isosafrole	9.7	U	9.7
Methapyrilene	1900	U	1900
3-Methylcholanthrene	9.7	U	9.7
Methyl methanesulfonate	9.7	U	9.7
2-Methylnaphthalene	9.7	U	9.7
Methyl parathion	9.7	U	9.7
2-Methylphenol	9.7	U	9.7
3 & 4 Methylphenol	9.8		9.7
Naphthalene	9.7	U	9.7
1,4-Naphthoquinone	9.7	U	9.7
1-Naphthylamine	9.7	U	9.7
2-Naphthylamine	9.7	U	9.7
2-Nitroaniline	49	U	49
3-Nitroaniline	49	U	49
4-Nitroaniline	49	U	49
Nitrobenzene	9.7	U	9.7
2-Nitrophenol	9.7	U	9.7
4-Nitrophenol	49	U	49
4-Nitroquinoline-1-oxide	19	U	19
N-Nitro-o-toluidine	9.7	U	9.7
N-Nitrosodiethylamine	9.7	U	9.7
N-Nitrosodimethylamine	9.7	Ü	9.7
N-Nitrosodi-n-butylamine	9.7	U	9.7
N-Nitrosodi-n-propylamine	9.7	Ü	9.7
N-Nitrosodi-h-propylamine	9.7	Ü	9.7
N-Nitrosomethylethylamine	9.7	Ü	9.7
N-Nitrosometnyletnylamine	9.7	U	5.1

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\* Do not use 'E' flagged data. Use all other data.

**Analytical Data** 

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103231

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101982

Lab File ID:

t5649.d

Dilution:

1.0

Initial Weight/Volume: Final Weight/Volume:

1030 mL

Date Analyzed: Date Prepared: 04/08/2008 1704 04/02/2008 0957

Injection Volume:

1 mL 1.0 uL

9.7

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	9.7	U	9.7
N-Nitrosopiperidine	9.7	U	9.7
N-Nitrosopyrrolidine	9.7	U	9.7
o,o',o"-Triethylphosphorothioate	9.7	U	9.7
Ethyl Parathion	9.7	U	9.7
p-Dimethylamino azobenzene	9.7	U	9.7
Pentachlorobenzene	16		9.7
Pentachloronitrobenzene	9.7	U	9.7
Pentachlorophenol	49	U	49
Phenacetin	9.7	U	9.7
Phenanthrene	9.7	U	9.7
Pheno!	9.7	U	9.7
Phorate	9.7	U	9.7
2-Picoline	9.7	U	9.7
p-Phenylene diamine	1900	U	1900
Pronamide	9.7	U	9.7
Pyrene	9.7	U	9.7
Pyridine	49	U	49
Safrole, Total	9.7	U	9.7
Sulfotepp	9.7	U	9.7
1,2,4,5-Tetrachlorobenzene	28		9.7

-101 110 1011 active 10 Property			
Thionazin	9.7	U	9.7
2-Toluidine	9.7	U	9.7
-1,2,4-Trichlorobenzene -	_ <del>1400</del>	- <del>E</del>	9.7
2,4,5-Trichloropheriol	9.7	U	9.7
2,4,6-Trichlorophenol	9.7	U	9.7
1,3,5-Trinitrobenzene	9.7	U	9.7
1-Chloro-3-nitrobenzene	9.7	U	9.7
2-Nitrobiphenyl	9.7	U	9.7
2,4-Dichloronitrobenzene	9.7	U	9.7
3-Nitrobiphenyl	9.7	U	9.7
3,4-Dichloronitrobenzene	9.7	U	9.7
4-Nitrobiphenyl	9.7	U	9.7
2-chloronitrobenzene / 4-chloronitrobenzene	19	U	19

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	64	50 - 113
2-Fluoropheriol	60	36 - 110
Nitrobenzene-d5	63	45 - 112
Phenol-d5	61	38 - 116
Terphenyl-d14	34	10 - 121
2,4,6-Tribromophenol	70	40 - 139

2,3,4,6-Tetrachloropheriol

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

Analyte

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101982

Lab File ID:

t5759.d

Dilution:

20

Initial Weight/Volume: Final Weight/Volume:

1030 mL

Date Analyzed:

04/16/2008 1258

Run Type: DL

Injection Volume:

1 mL 1.0 uL

RL

Date Prepared:

04/02/2008 0957

Result (ug/L) Qualifier

Allalyte	result (ug/L)	Quanto	
Acenaphthene	190	U	190
Acenaphthylene	190	U	190
Acetophenone	190	U	190
2-Acetylaminofluorene	190	U	190
alpha,alpha-Dimethyl phenethylamine	39000	U	39000
4-Aminobiphenyl	190	U	190
Aniline	390	U	390
Anthracene	190	U	190
Aramite, Total	190	U	190
Benzo[a]anthracene	190	U	190
Benzo[a]pyrene	190	U	190
Benzo[b]fluoranthene	190	U	190
Benzo[g,h,i]perylene	190	U	190
Benzo[k]fluoranthene	190	U	190
Benzyl alcohol	190	U	190
1,1'-Biphenyl	190	U	190
Bis(2-chloroethoxy)methane	190	U	190
Bis(2-chloroethyl)ether	190	U	190
bis(chloroisopropyl) ether	190	U	190
Bis(2-ethylhexyl) phthalate	190	U	190
4-Bromophenyl phenyl ether	190	U	190
Butyl benzyl phthalate	190	U	190
4-Chloroaniline	390	U	390
4-Chloro-3-methylphenol	190	U	190
2-Chloronaphthalene	190	U	190
2-Chlorophenol	190	U	190
4-Chlorophenyl phenyl ether	190	U	190
Chrysene	190	U	190
Diallate	190	U	190
Dibenz(a,h)anthracene	190	U	190
Dibenzofuran	190	U	190
3,3'-Dichlorobenzidine	390	U	390
2,4-Dichlorophenol	190	U	190
2,6-Dichlorophenol	190	U	190
Diethyl phthalate	190	U	190
Dimethoate	190	U	190
7,12-Dimethylbenz(a)anthracene	190	U	190
3,3'-Dimethylbenzidine	390	U	390
2,4-Dimethylphenol	190	U	190
Dimethyl phthalate	190	U	190
Di-n-butyl phthalate	190	Ū	190
1,3-Dinitrobenzene	190	U	190
4,6-Dinitro-2-methylphenol	970	Ū	970

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Job Number: 680-35403-1 Client: Solutia Inc.

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

## 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID:

GC/MS SemiVolatiles - T

Preparation:

3520C

Prep Batch: 680-101982

Lab File ID: Initial Weight/Volume:

t5759.d 1030 mL

Dilution:

20

Run Type: DL

Final Weight/Volume:

1 mL

Date Analyzed: Date Prepared: 04/16/2008 1258

04/02/2008 0957

Injection Volume:

1.0 uL

Analyte	Result (ug/L)	Qualifier	RL
2,4-Dinitrotoluene	190	U	190
2,6-Dinitrotoluene	190	U	190
Di-n-octyl phthalate	190	U	190
Dinoseb	190	U	190
1,4-Dioxane	190	U	190
Disulfoton	190	U	190
Ethyl methanesulfonate	190	U	190
Famphur	190	U	190
Fluoranthene	190	U	190
Fluorene	190	U	190
Hexachlorobenzene	190	U	190
Hexachlorobutadiene	190	U	190
Hexachlorocyclopentadiene	190	U	190
Hexachloroethane	190	U	190
Hexachlorophene	97000	U	97000
Hexachloropropene	190	U	190
Indeno[1,2,3-cd]pyrene	190	U	190
Isophorone	190	U	190
Isosafrole	190	U	190
Methapyrilene	39000	U	39000
3-Methylcholanthrene	190	U	190
Methyl methanesulfonate	190	U	190
2-Methylnaphthalene	190	U	190
Methyl parathion	190	U	190
2-Methylphenol	190	Ü	190
3 & 4 Methylphenol	190	U	190
Naphthalene	190	U	190
1,4-Naphthoquinone	190	Ü	190
1-Naphthylamine	190	Ü	190
2-Naphthylamine	190	Ü	190
2-Nitroaniline	970	Ü	970
3-Nitroaniline	970	Ü	970
4-Nitroaniline	970	Ü	970
Nitrobenzene	190	Ü	190
2-Nitrophenol	190	Ü	190
4-Nitrophenol	970	Ü	970
•	390	Ü	390
4-Nitroquinoline-1-oxide N-Nitro-o-toluidine	190	Ü	190
N-Nitrosodiethylamine	190	U	190
•	190	U	190
N-Nitrosodimethylamine	190	U	190
N-Nitrosodi-n-butylamine	190	U	190
N-Nitrosodi-n-propylamine	190	U	190
N-Nitrosodiphenylamine		U	190
N-Nitrosomethylethylamine	190	U	190

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\* Use this data only. All other data was reported from
the undiluted analysis.

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Client Sample ID:

PMAMW04S-0308

Lab Sample ID:

680-35499-1

Client Matrix:

Water

Date Sampled:

03/31/2008 1030

Date Received:

04/01/2008 1138

#### 8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:

8270C

Analysis Batch: 680-103317

Instrument ID: GC/MS SemiVolatiles - T

Preparation:

3520C

Lab File ID: t5759.d

Dilution:

20

Prep Batch: 680-101982

Initial Weight/Volume:

1030 mL

Date Analyzed:

04/16/2008 1258

Run Type: DL

Final Weight/Volume: Injection Volume:

1 mL 1.0 uL

Date Prepared:

04/02/2008 0957

Analyte	Result (ug/L)	Qualifier	RL
N-Nitrosomorpholine	190	U	190
N-Nitrosopiperidine	190	U	190
N-Nitrosopyrrolidine	190	U	190
o,o',o"-Triethylphosphorothioate	190	U	190
Ethyl Parathion	190	U	190
p-Dimethylamino azobenzene	190	U	190
Pentachlorobenzene	190	U	190
Pentachloronitrobenzene	190	U	190
Pentachlorophenol	970	U	970
Phenacetin	190	U	190
Phenanthrene	190	U	190
Phenol	190	U	190
Phorate	190	U	190
2-Picoline	190	U	190
p-Phenylene diamine	39000	U	39000
Pronamide	190	U	190
Pyrene	190	U	190
Pyridine	970	U	970
Safrole, Total	190	U	190
Sulfotepp	190	U	190
1,2,4,5-Tetrachlorobenzene	190	U	190
2,3,4,6-Tetrachlorophenol	190	U	190
Thionazin	190	U	190
2-Toluidine	190	U	190
1,2,4-Trichlorobenzene	2900	D	190
2,4,5-Trichlorophenol	190	U	190
2,4,6-Trichlorophenol	190	U	190
1,3,5-Trinitrobenzene	190	U	190
1-Chloro-3-nitrobenzene	190	U	190
2-Nitrobiphenyl	190	U	190
2,4-Dichloronitrobenzene	190	U	190
3-Nitrobiphenyl	190	U	190
3,4-Dichloronitrobenzene	190	U	190
4-Nitrobiphenyl	190	U	190
2-chloronitrobenzene / 4-chloronitrobenzene	390	U	390
Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl		D	50 - 113

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	/0/	D	50 - 113
2-Fluorophenol	/ o \	D	36 - 110
Nitrobenzene-d5	( 0 \	D	45 - 112
Phenol-d5	0	D	38 - 116
Terphenyl-d14	\	D	10 - 121
2,4,6-Tribromophenol	0	D	40 - 139

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# **DATA REPORTING QUALIFIERS**

Client: Solutia Inc.

Job Number: 680-35403-1

Sdg Number: KPM015

Lab Section	Qualifier	Description		
GC/MS VOA				
	U	Indicates the analyte was analyzed for but not detected.		
	*	LCS or LCSD exceeds the control limits		
	F	MS or MSD exceeds the control limits		
	E	Result exceeded calibration range, secondary dilution required.		
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.		
GC/MS Semi VOA				
	U	Indicates the analyte was analyzed for but not detected.		
	*	LCS or LCSD exceeds the control limits		
	F	MS or MSD exceeds the control limits		
	E	Result exceeded calibration range, secondary dilution required.		
	F	RPD of the MS and MSD exceeds the control limits		
	Н	Sample was prepped or analyzed beyond the specified holding time		
	X	Surrogate exceeds the control limits		
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.		